

The Jini Technology

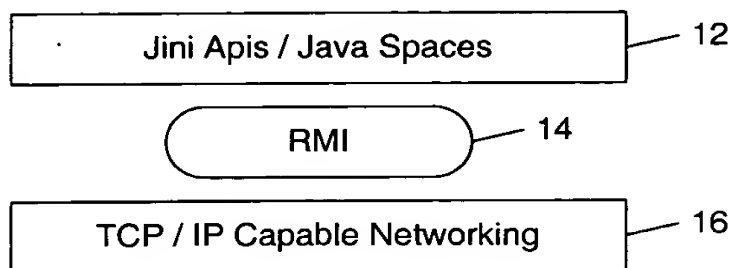


Fig. 1  
(Prior Art)

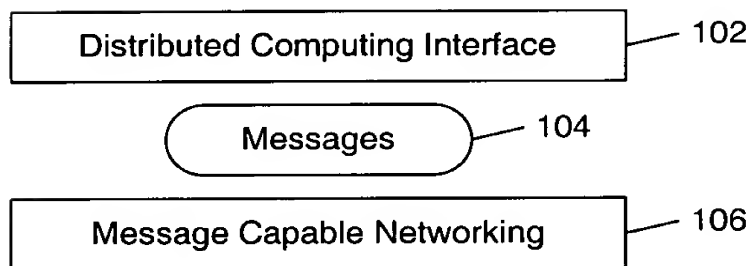


Fig. 2

00663297-101900

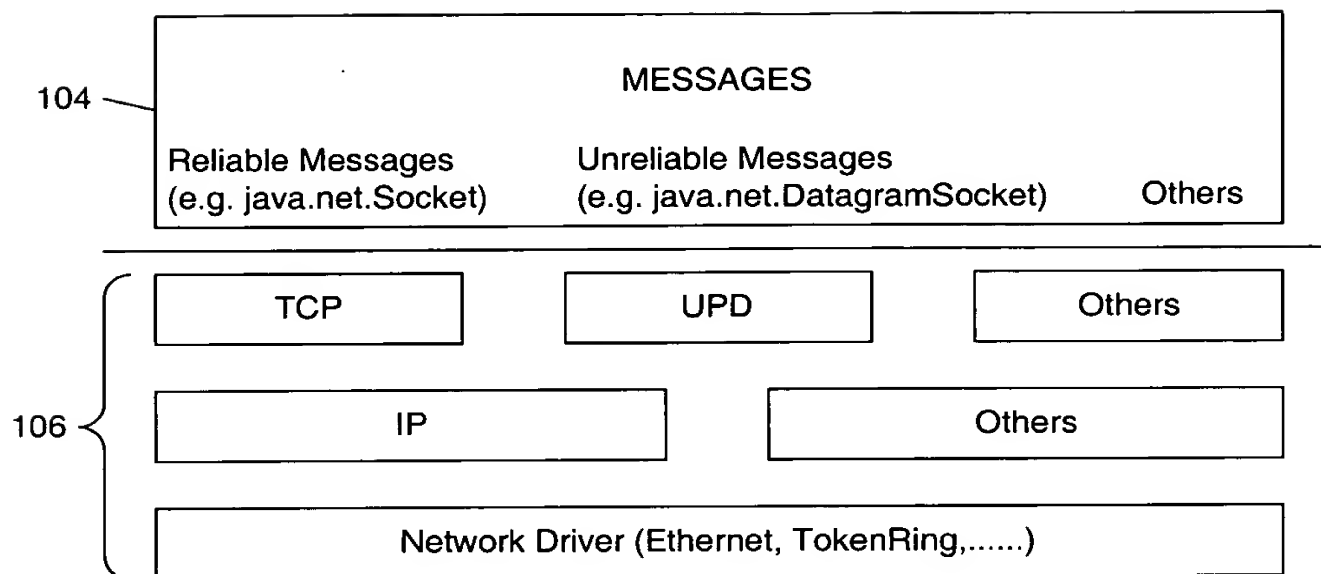


Fig. 3

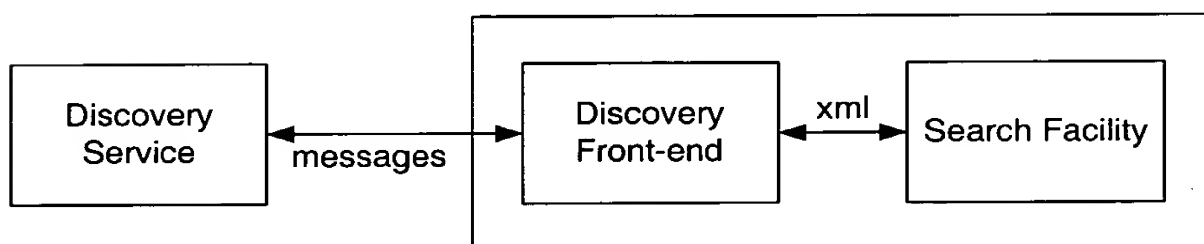
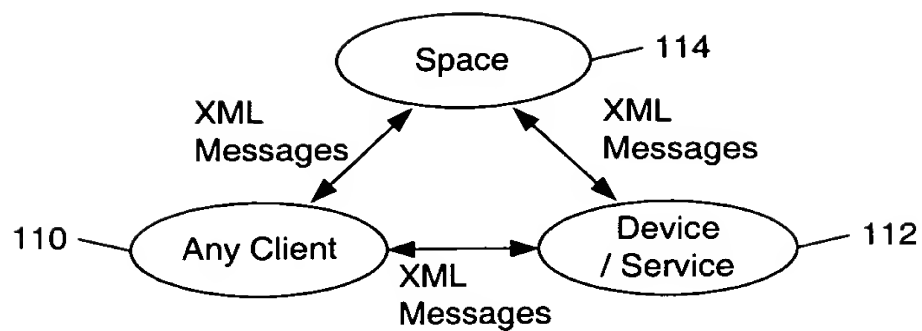


Fig. 4

**Fig. 5**

[illegible]

**Fig. 6**

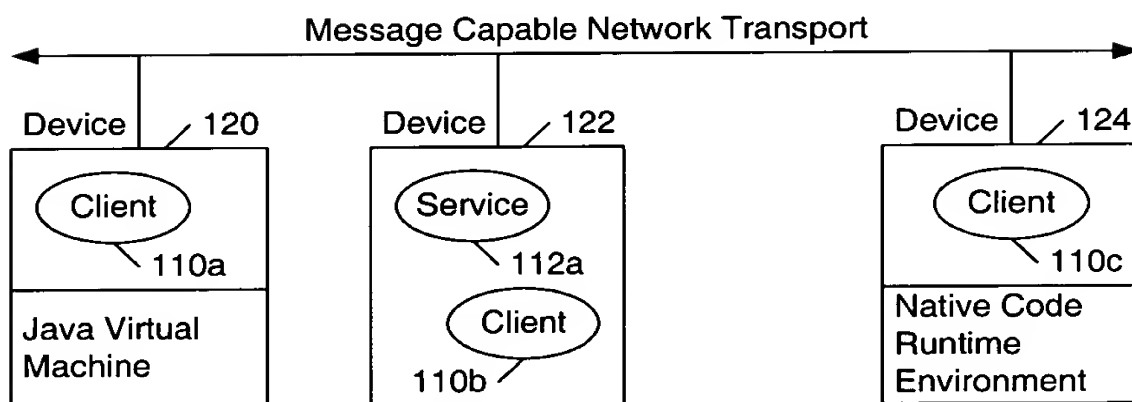


Fig. 7

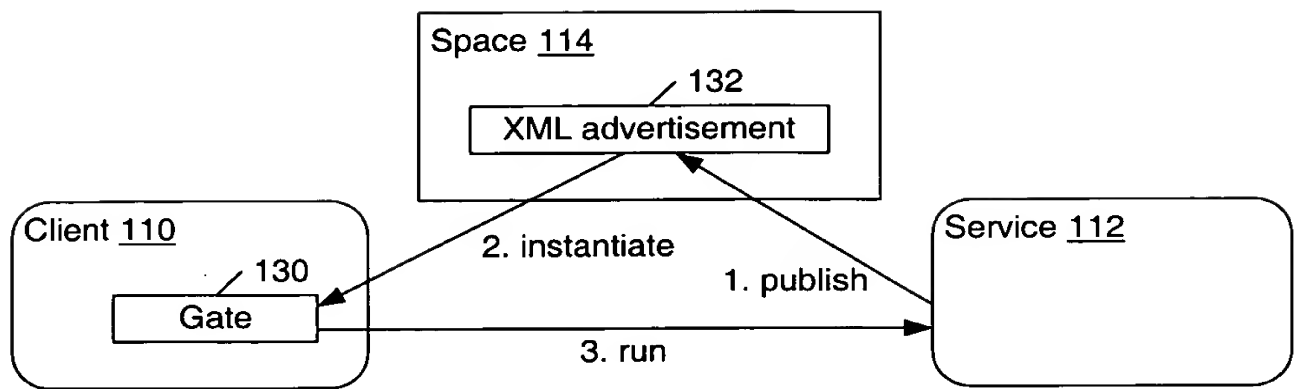


Fig. 8

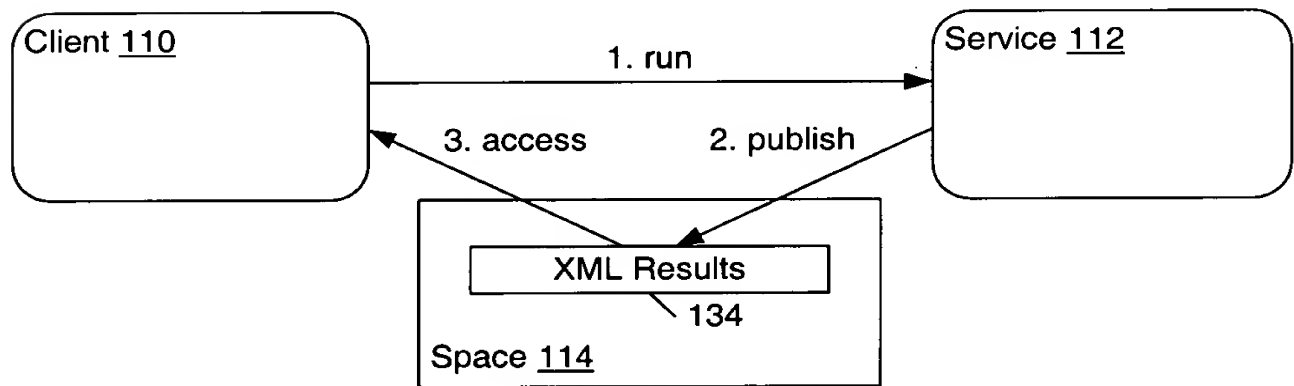
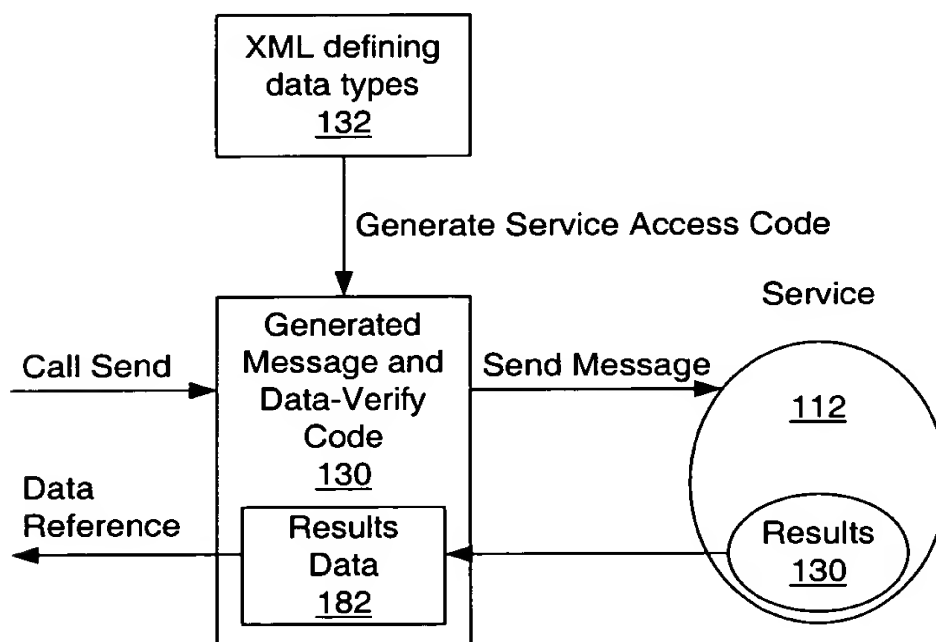
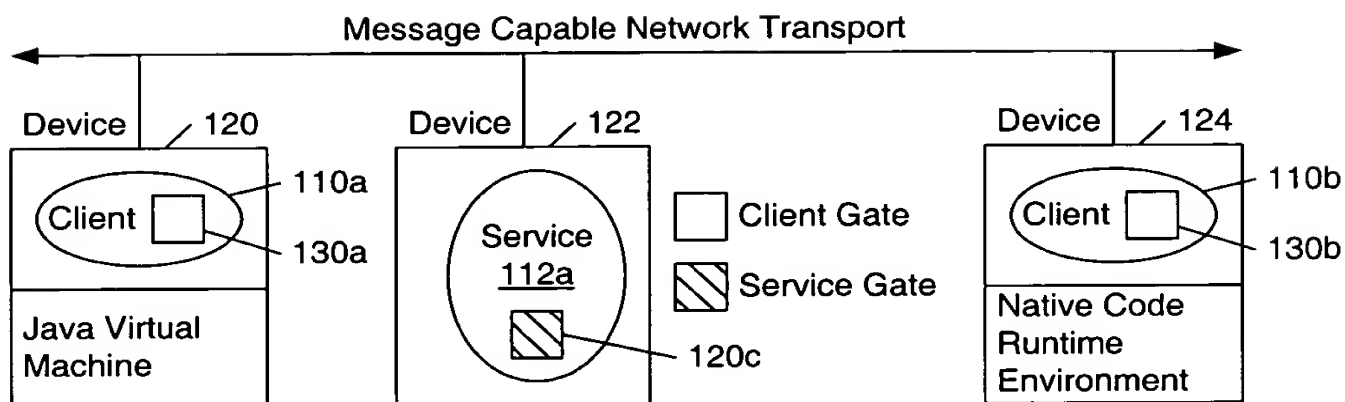


Fig. 9



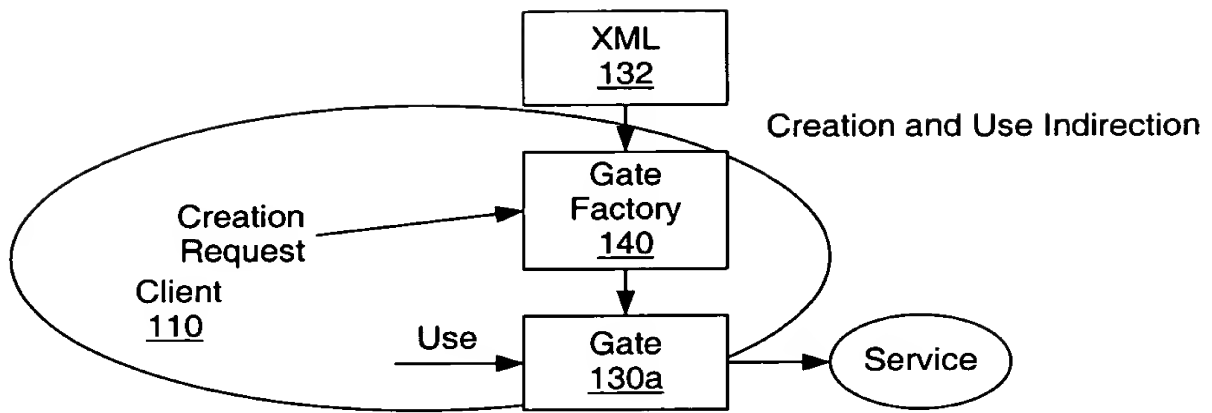


Fig. 11a

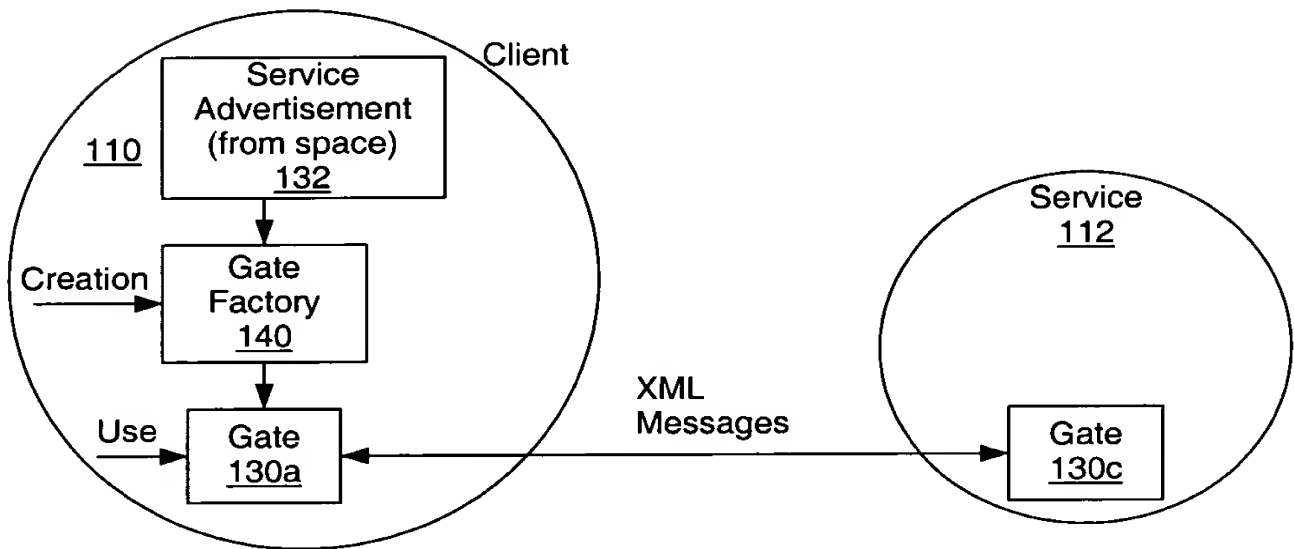


Fig. 11b

006T0T 202E6960

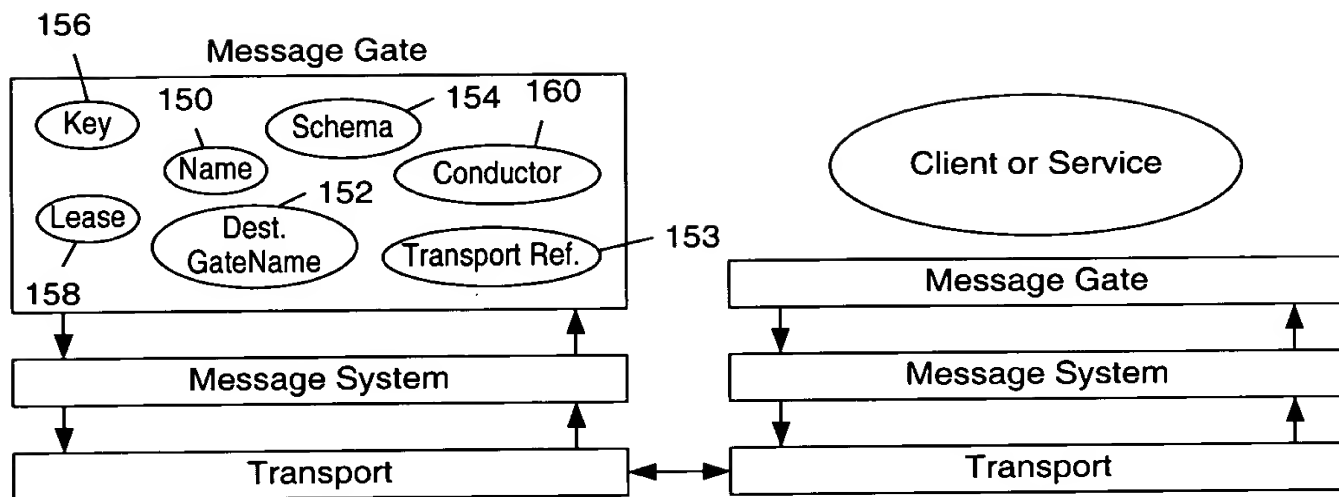


Fig. 12

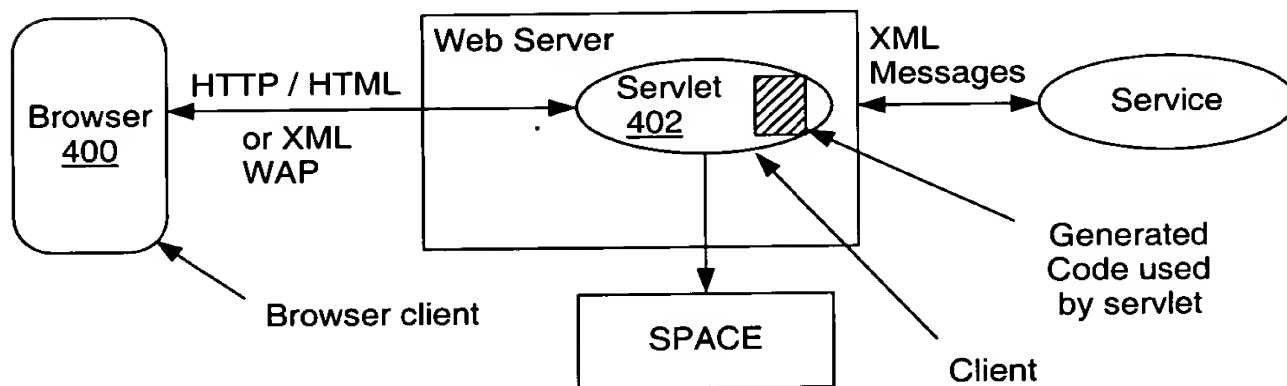


Fig. 13



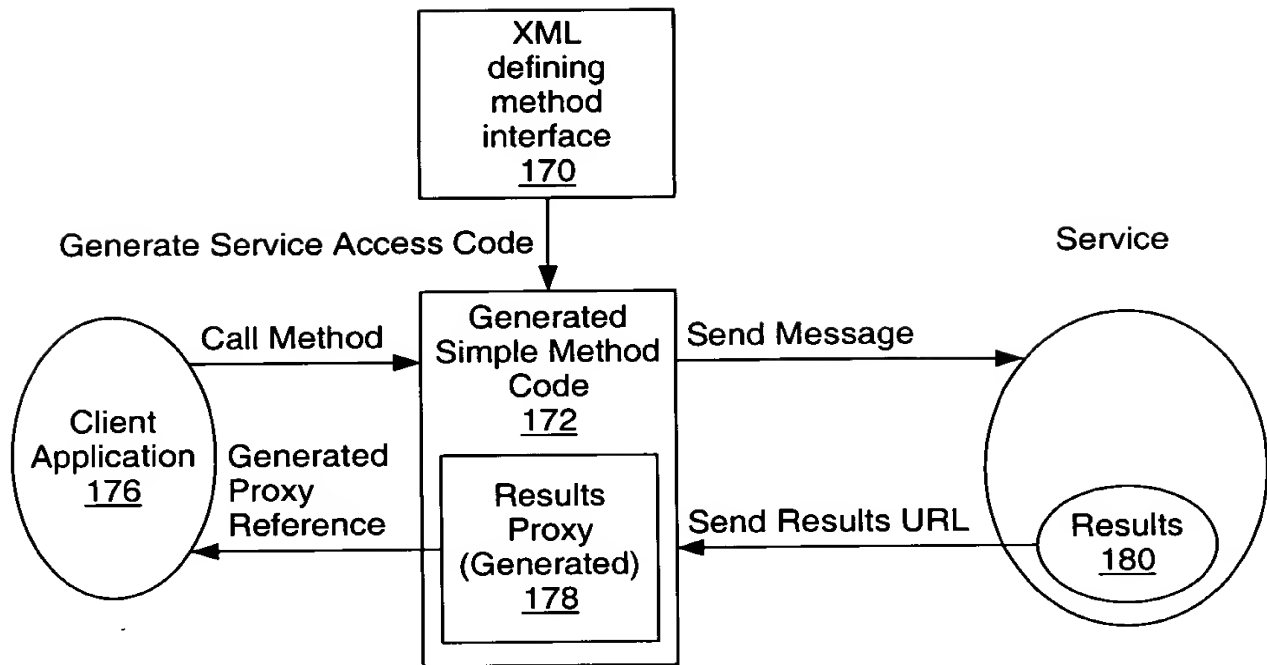


Fig. 14

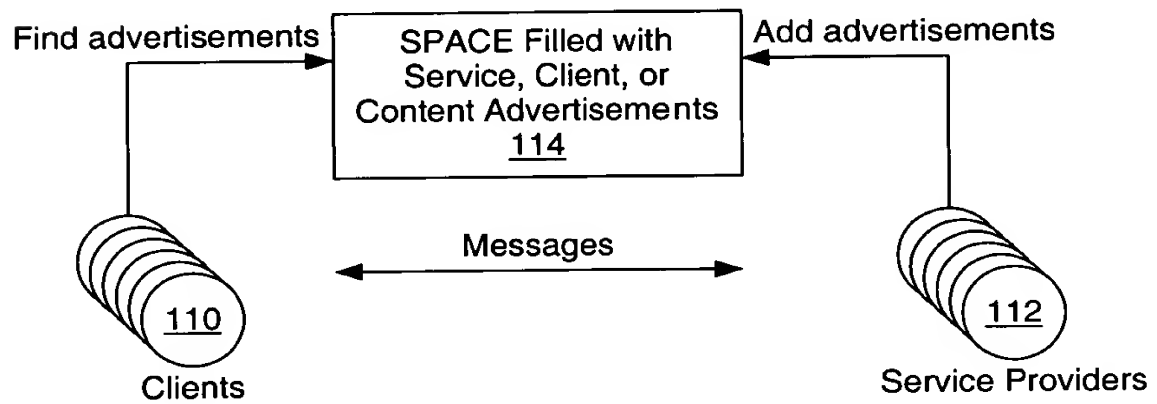


Fig. 15

006T0T 101000

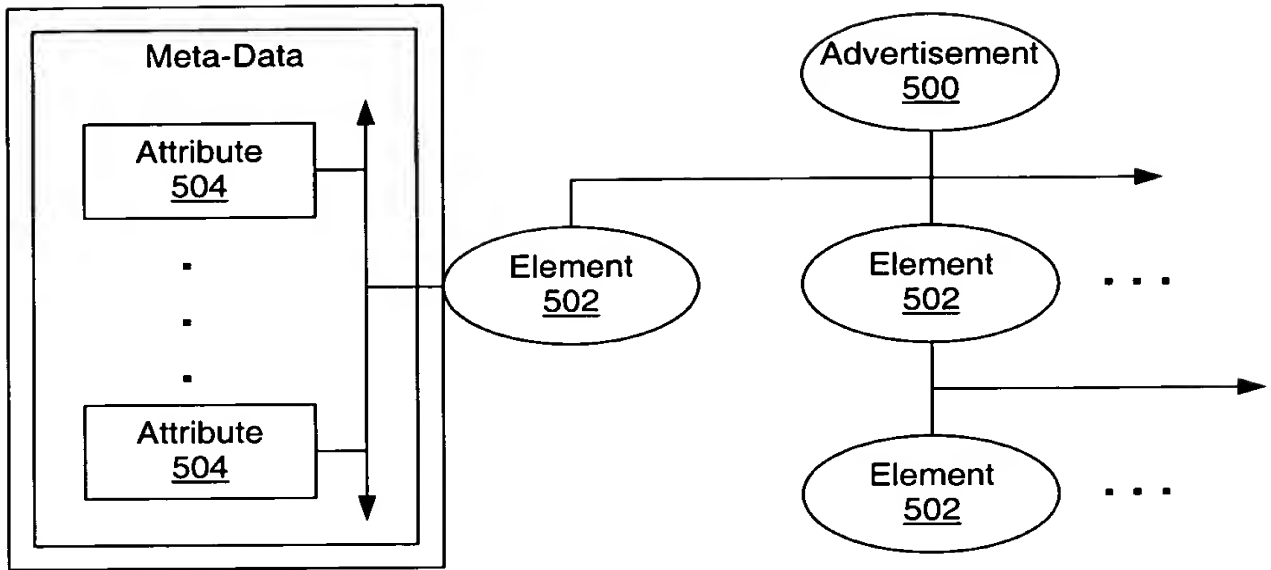


Fig. 16

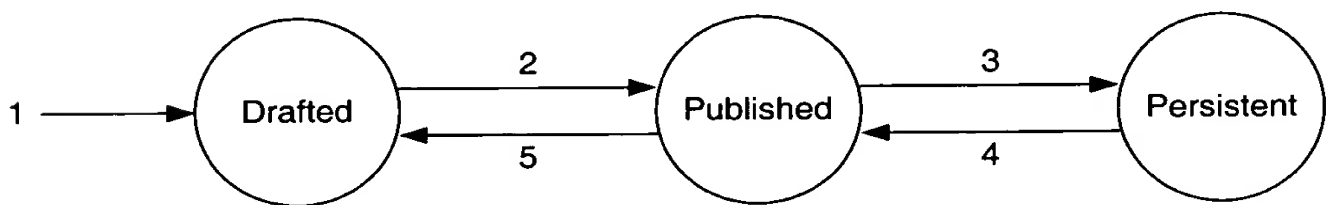


Fig. 17

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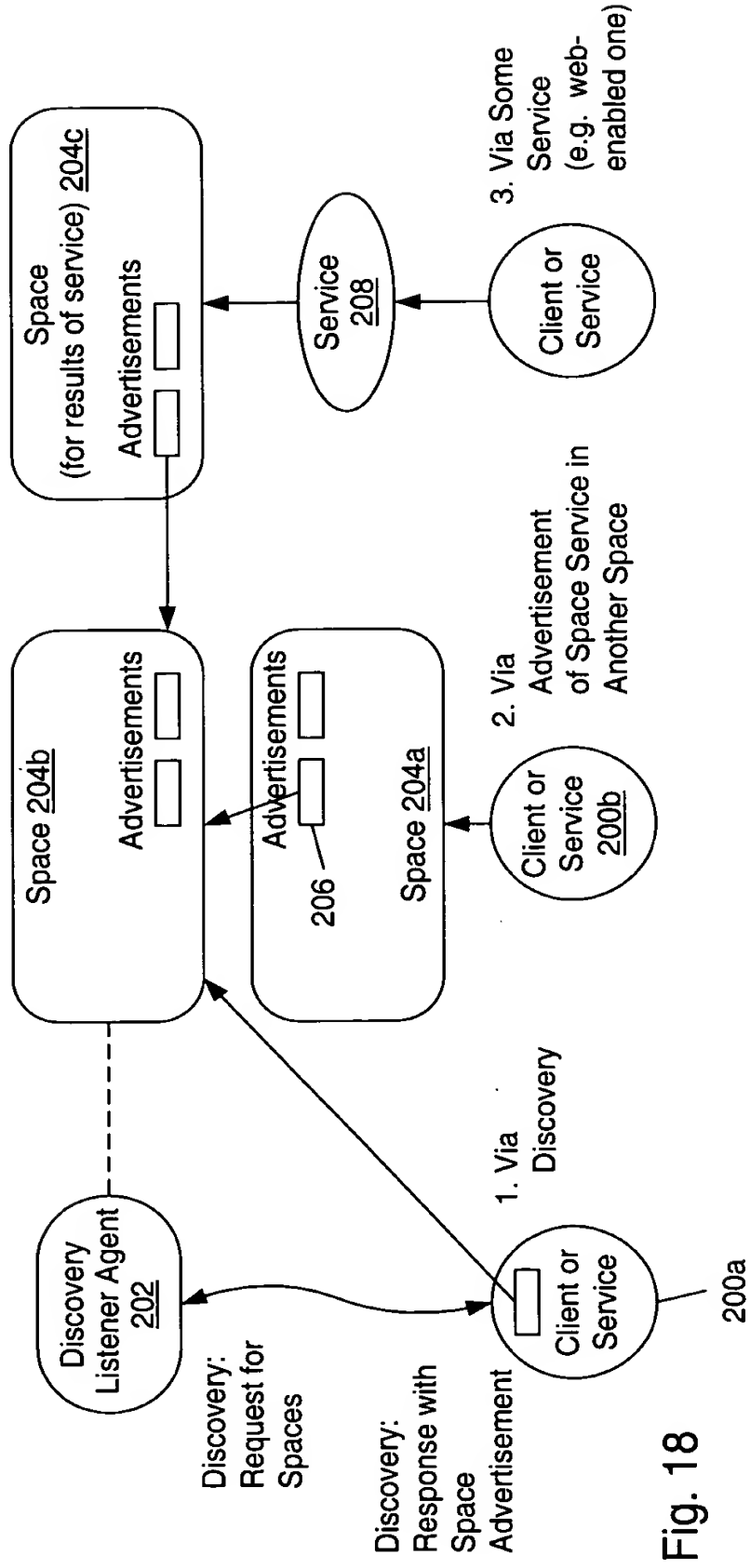


Fig. 18

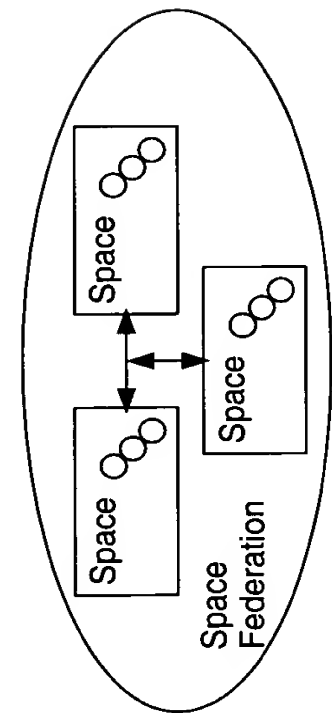


Fig. 19

006T0T-10100

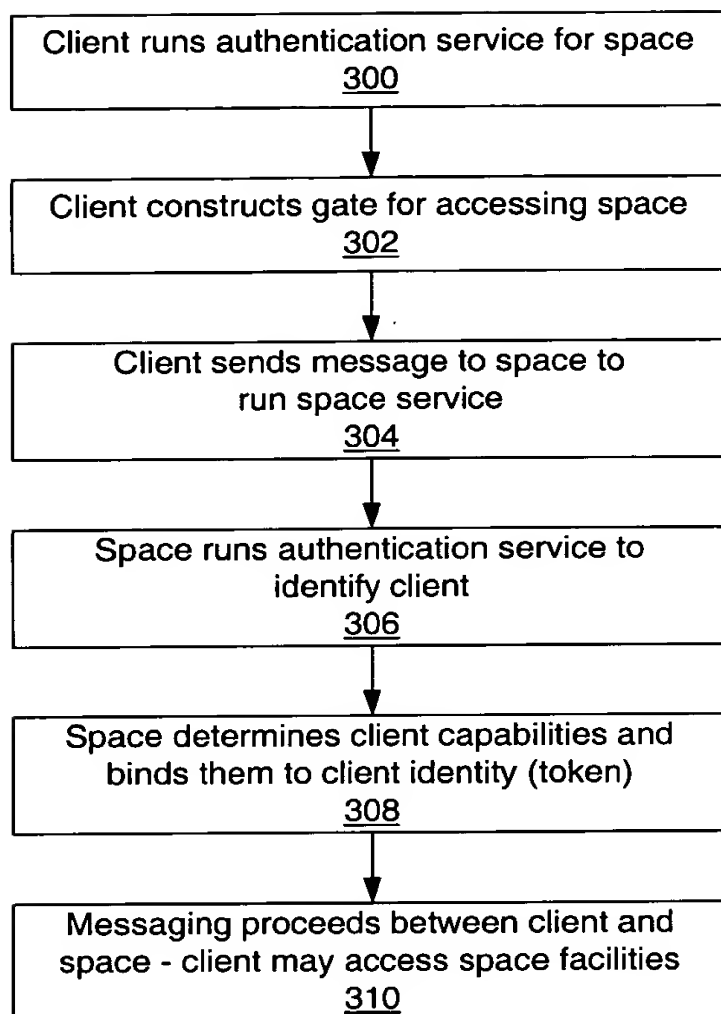


Fig. 20

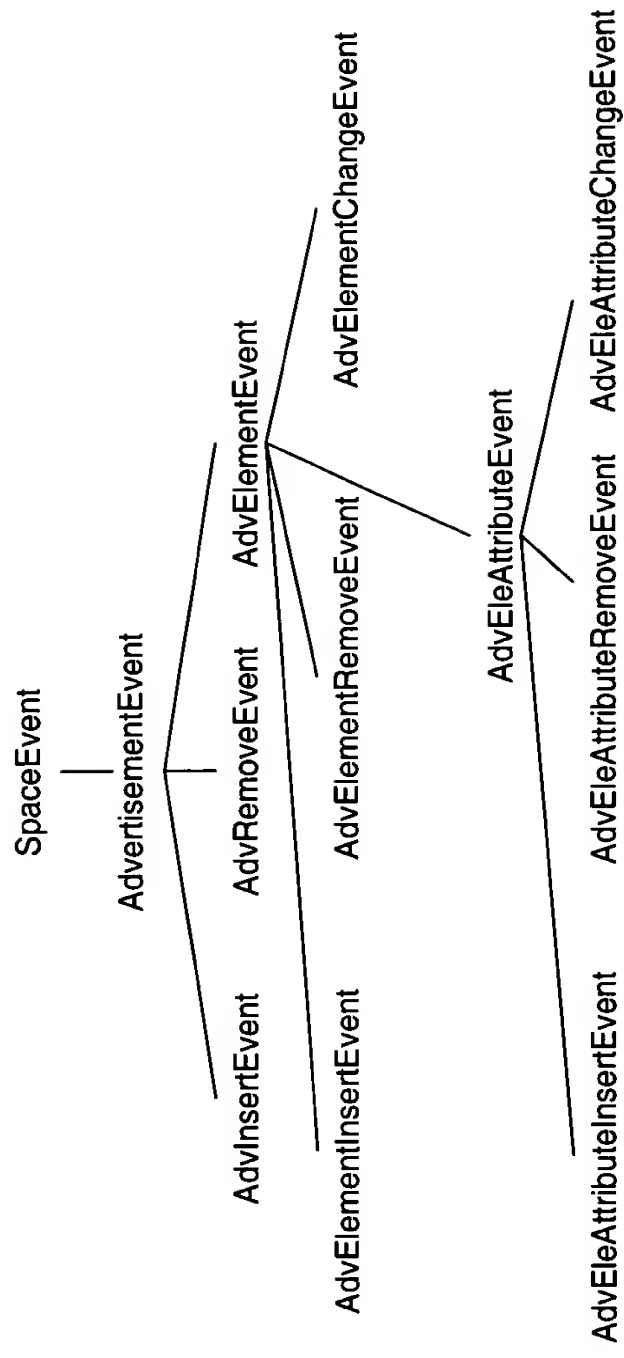


Fig. 21

```

graph TD
    320[Client selects service advertisement published in space 320] --> 322[Client sends message to space requesting instantiation of service 322]
    322 --> 324[Space verifies request 324]
    324 --> 326[Space obtains lease for service 326]
    326 --> 328[Space sends lease and service advertisement to client 328]
    328 --> 330[Client runs authentication service specified in advertisement 330]
    330 --> 332[Client constructs gate to access service 332]
  
```

```

graph LR
    C1([Client]) --> DS[Default Space advertising additional spaces 350]
    C2([Client]) --> DS
    subgraph DS_Box [ ]
        direction TB
        DS_Text[Default Space advertising additional spaces 350]
        Hatched([352])
    end
    Hatched --> OS[OtherSpace]

```

Fig. 23

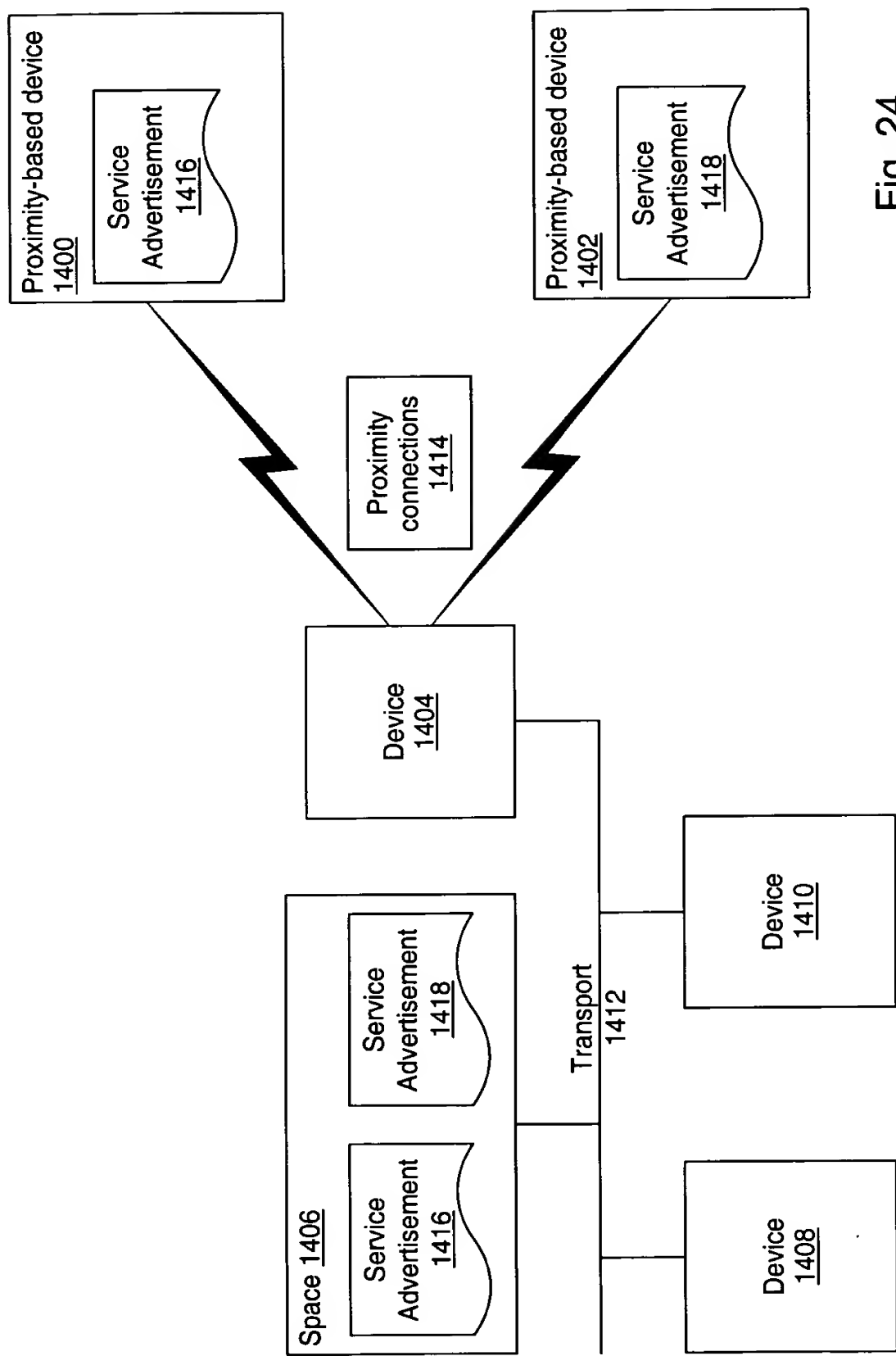


Fig. 24

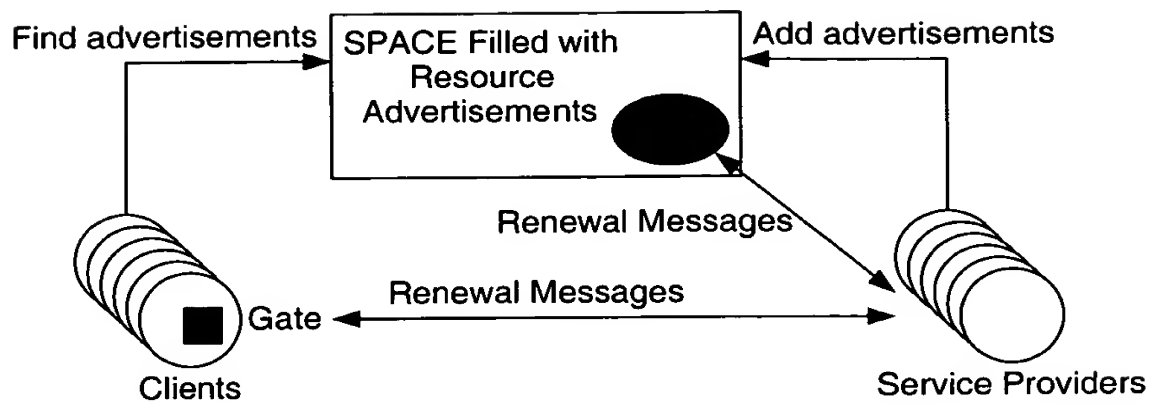


Fig. 25

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```

graph TD
    A[Client requests authentication credential from authentication service  
1000] --> B[Authentication service generates authentication credential  
1002]
    B --> C[Authentication service sends authentication credential to client  
1004]

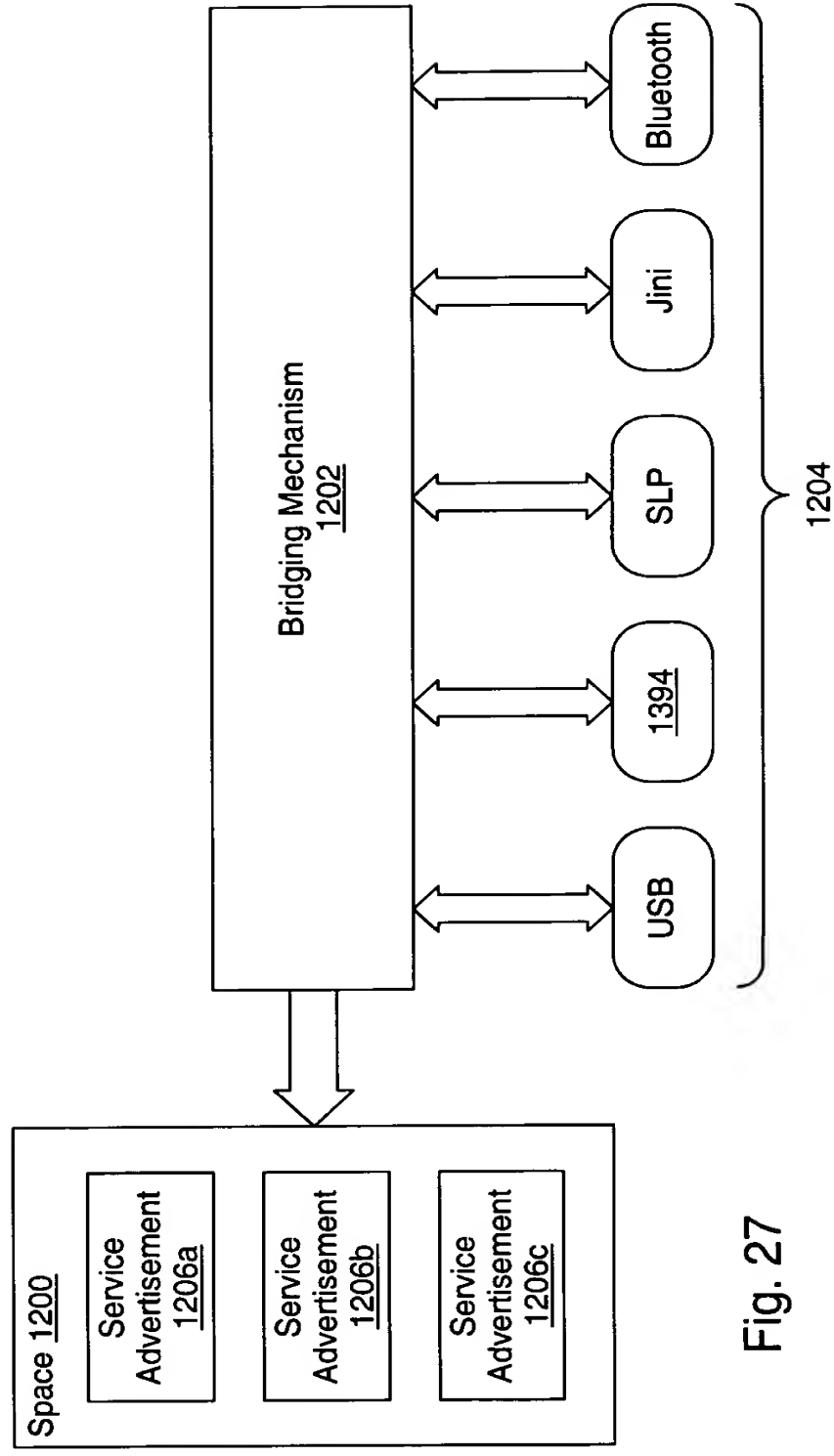
```

```

graph TD
    1002a[Authentication service obtains client token and service token  
1002a] --> 1002b[Authentication service verifies client and service  
1002b]
    1002b --> 1002c[Authentication service generates authentication credential  
1002c]

```

FIG. 26b



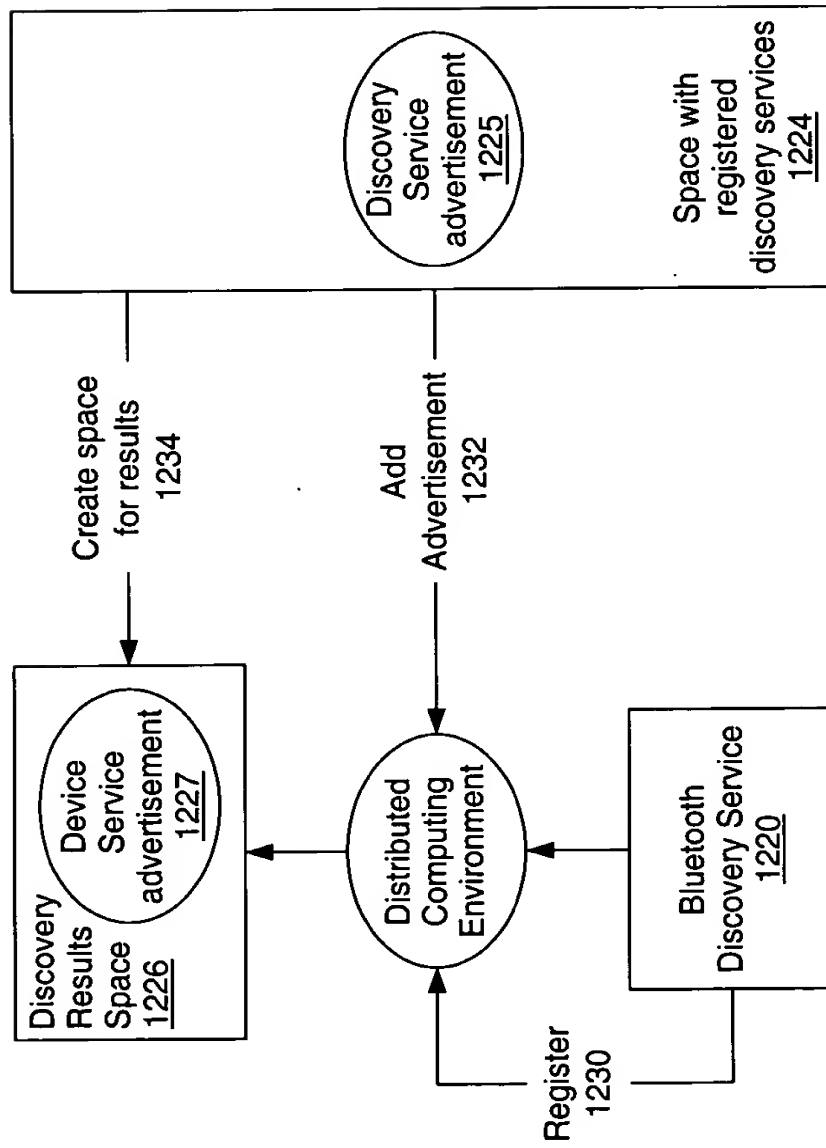


Fig. 28

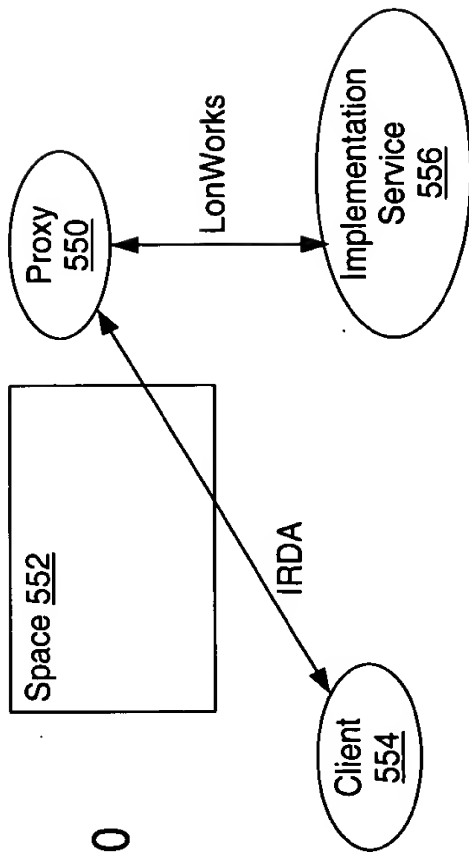


Fig. 30

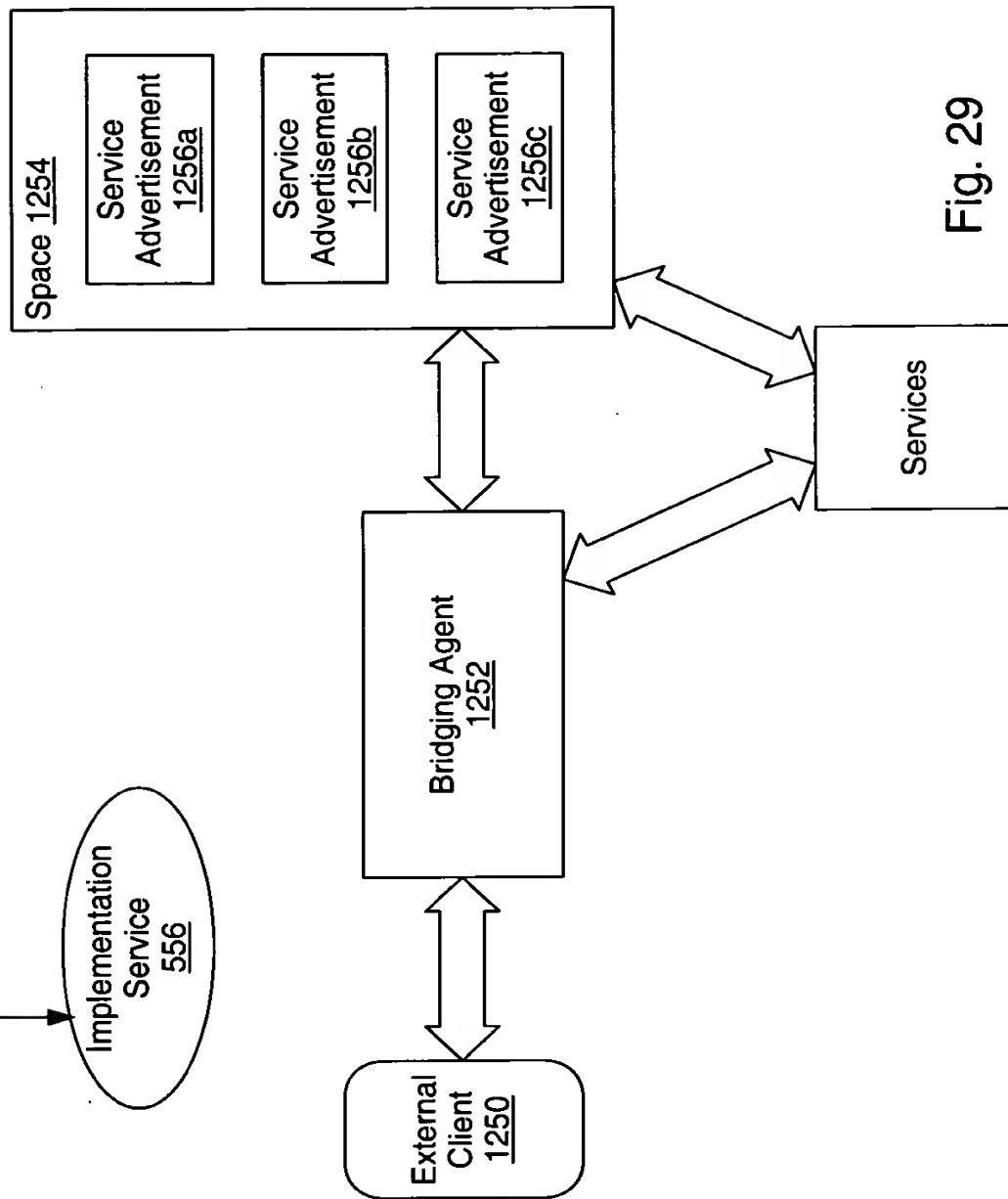


Fig. 29

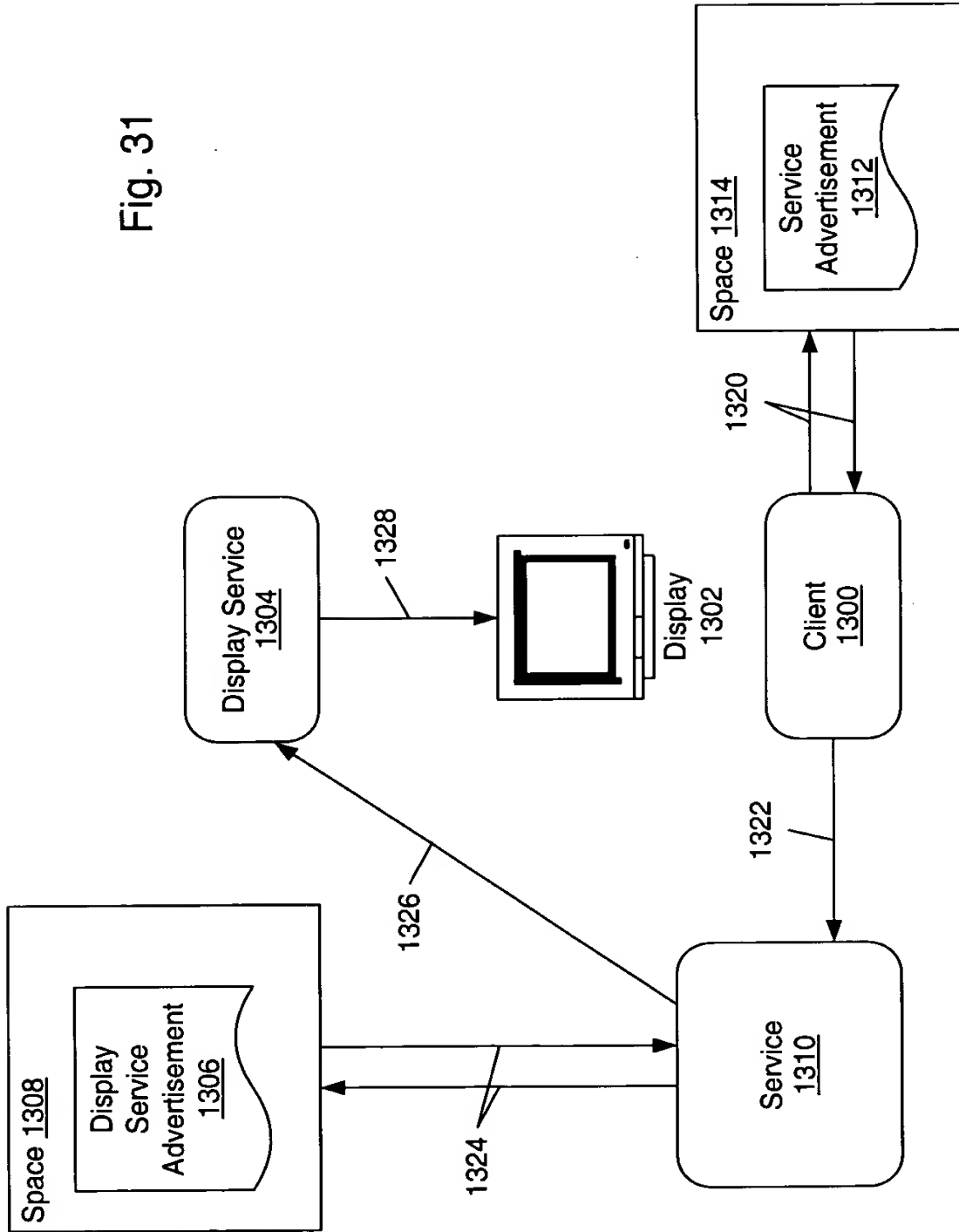
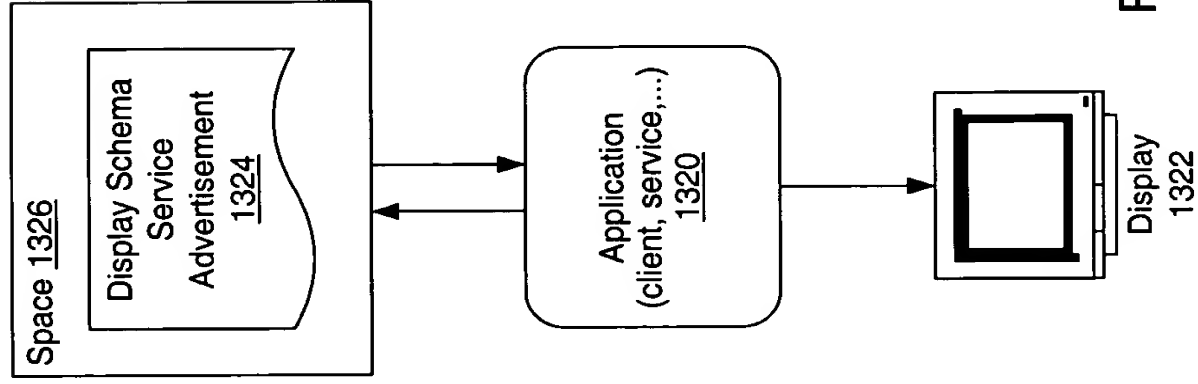
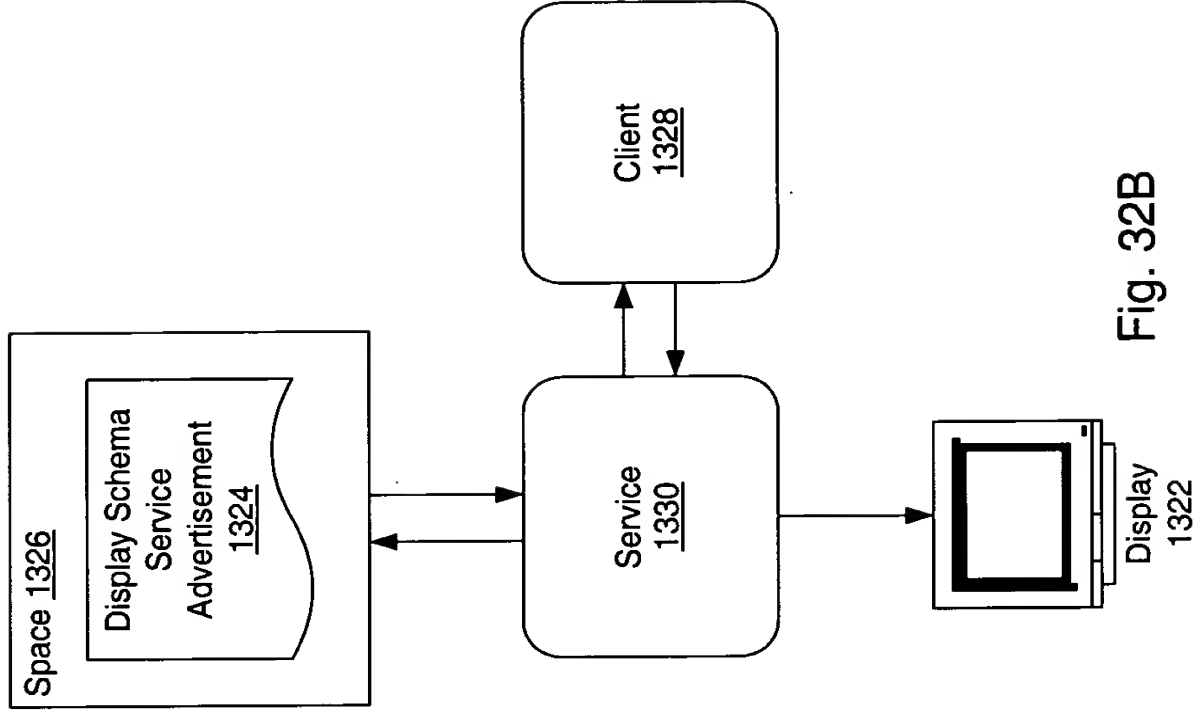


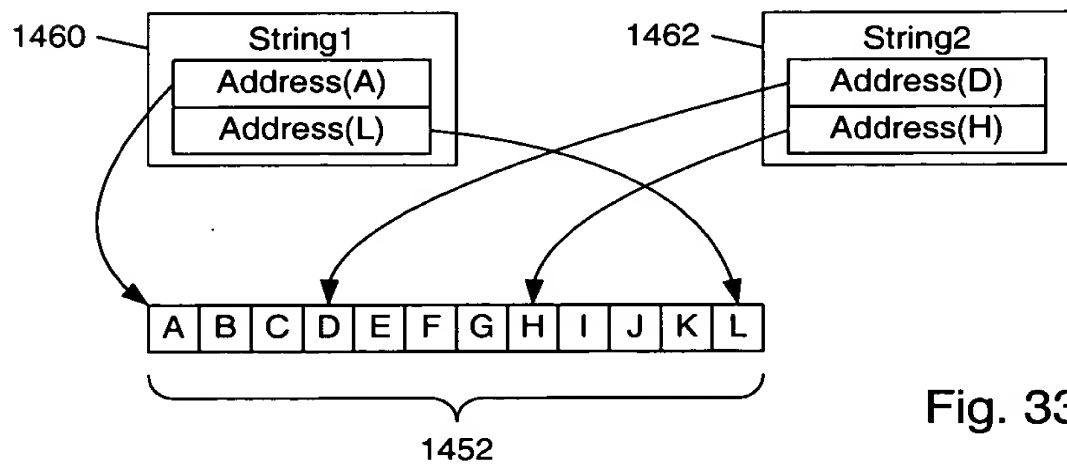
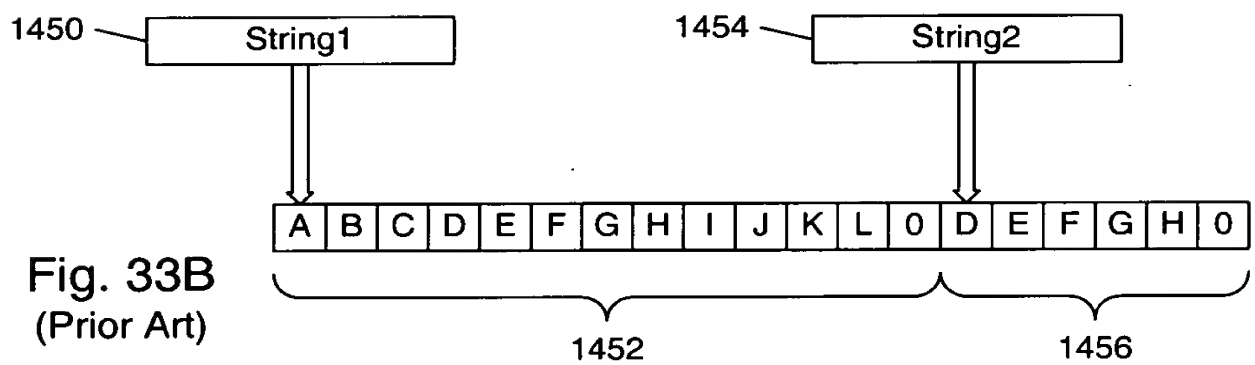
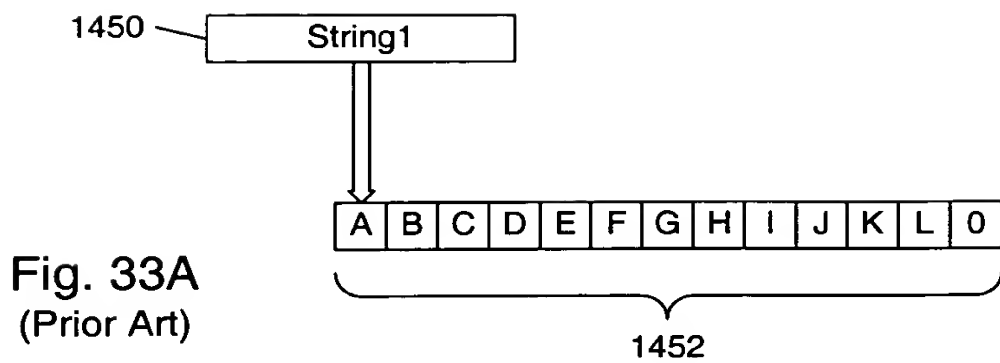
Fig. 31



**Fig. 32A**



**Fig. 32B**



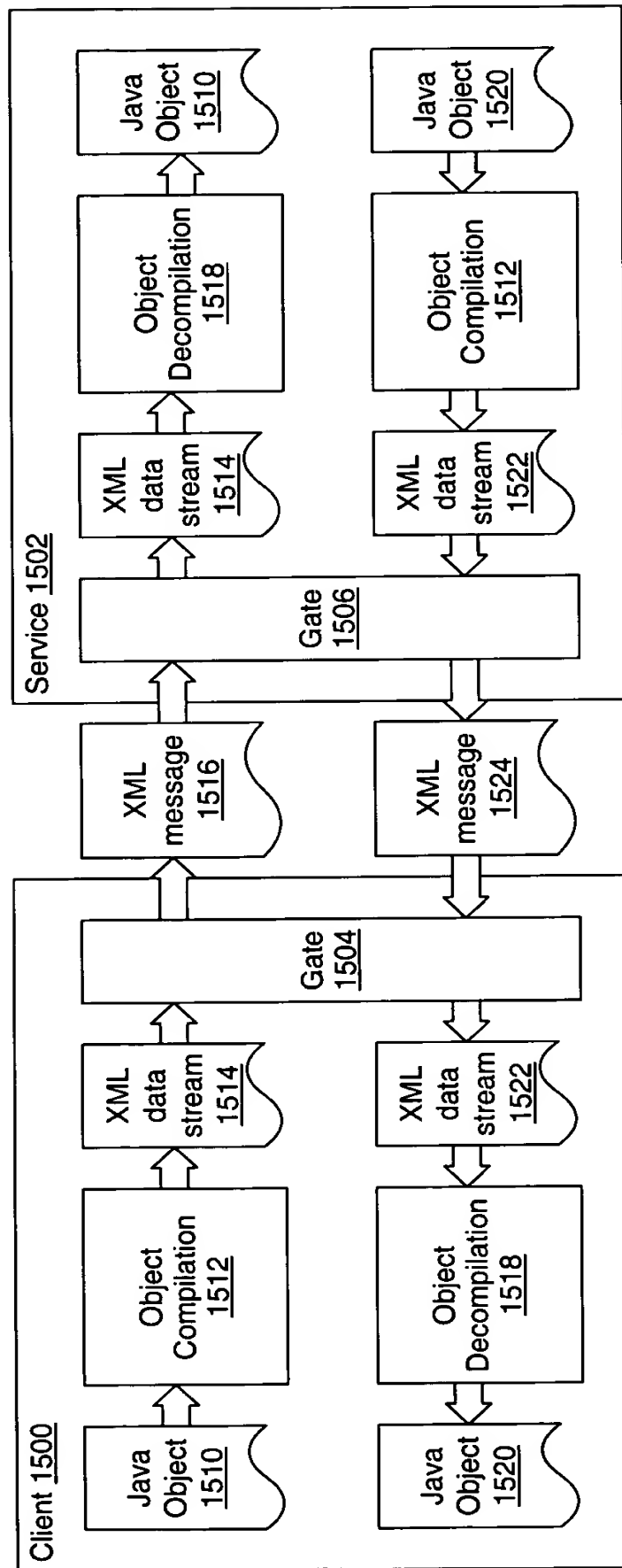


Fig. 34



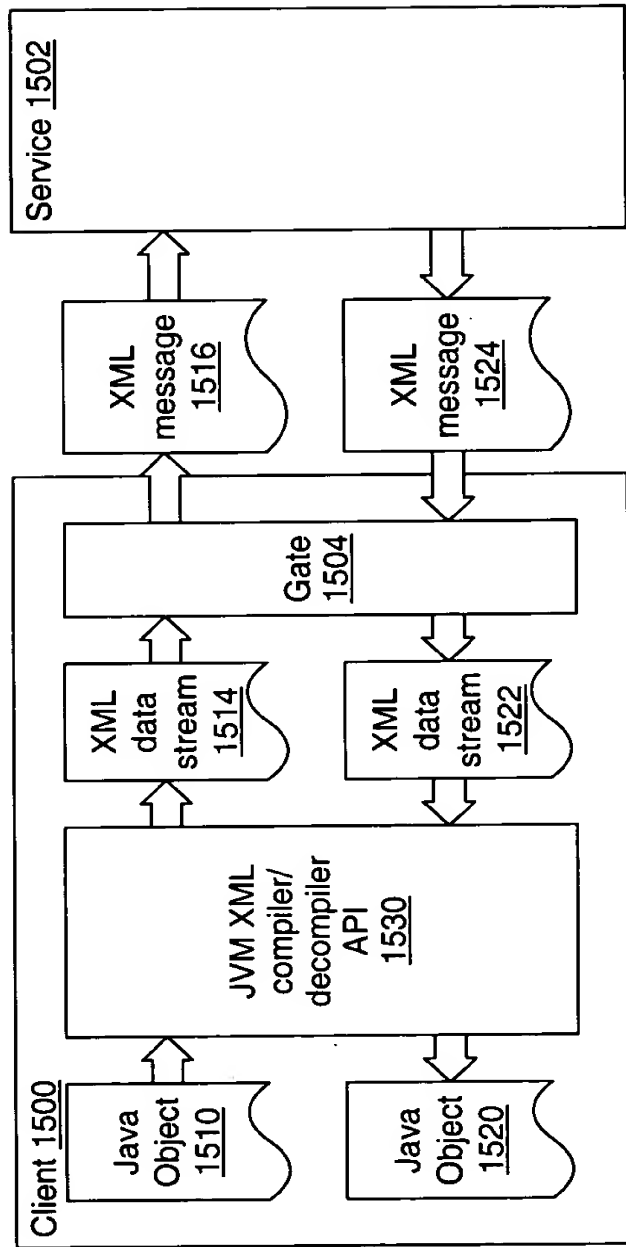


Fig. 35a

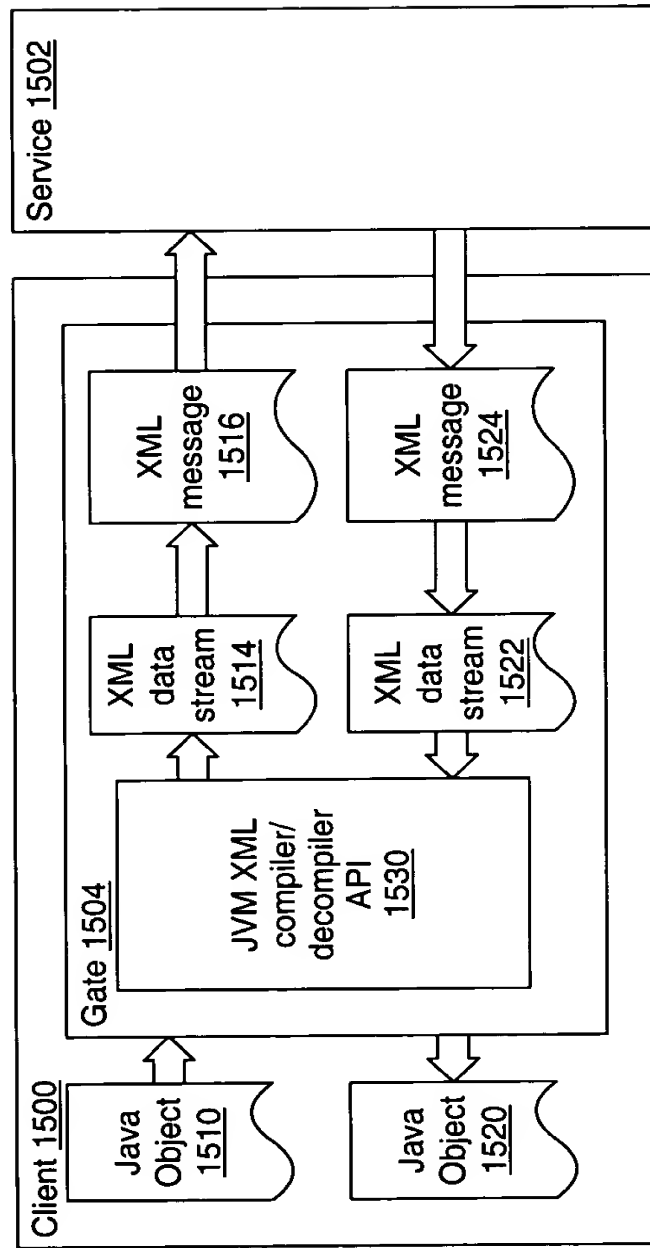


Fig. 35b

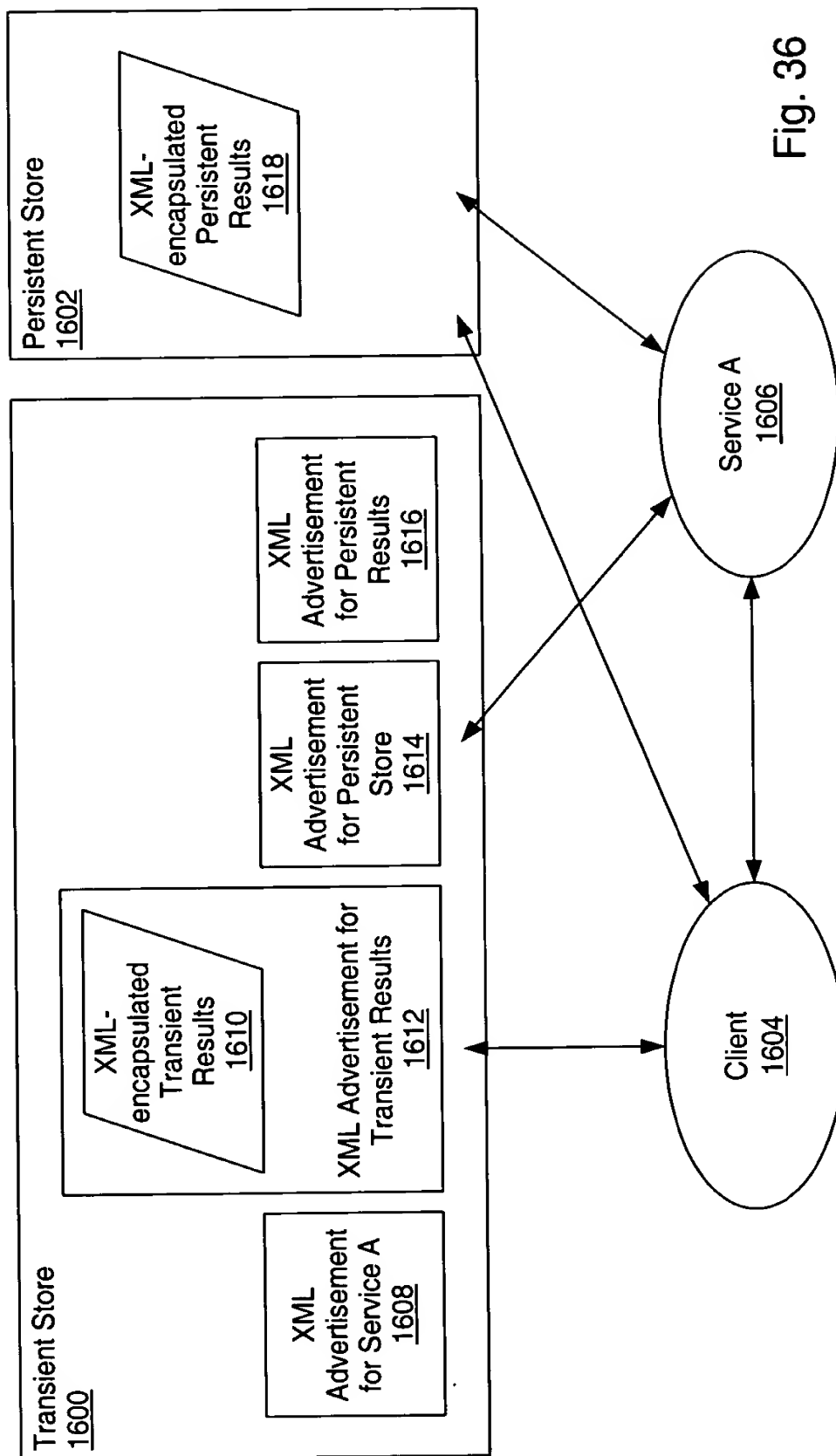


Fig. 36

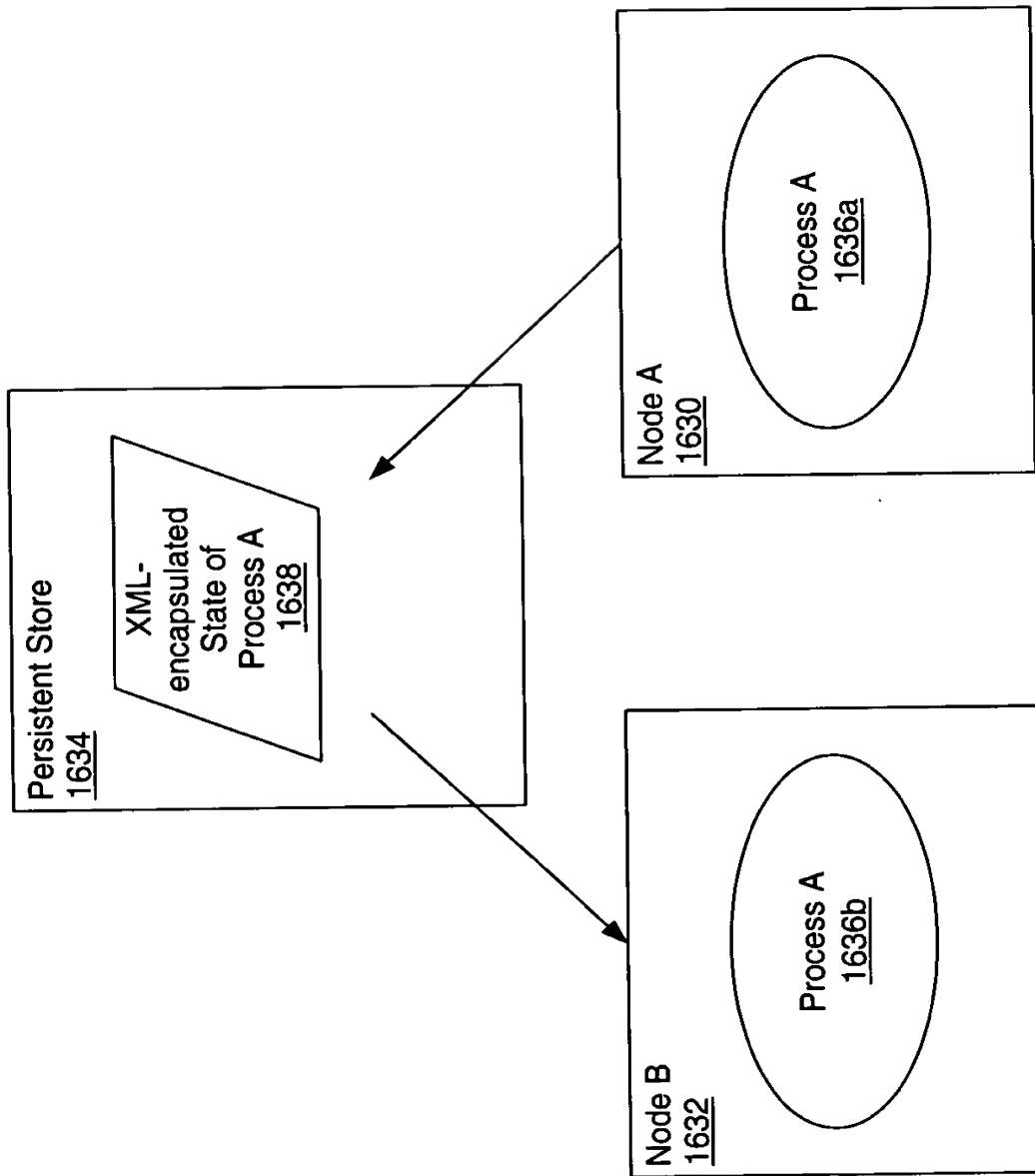


Fig. 37

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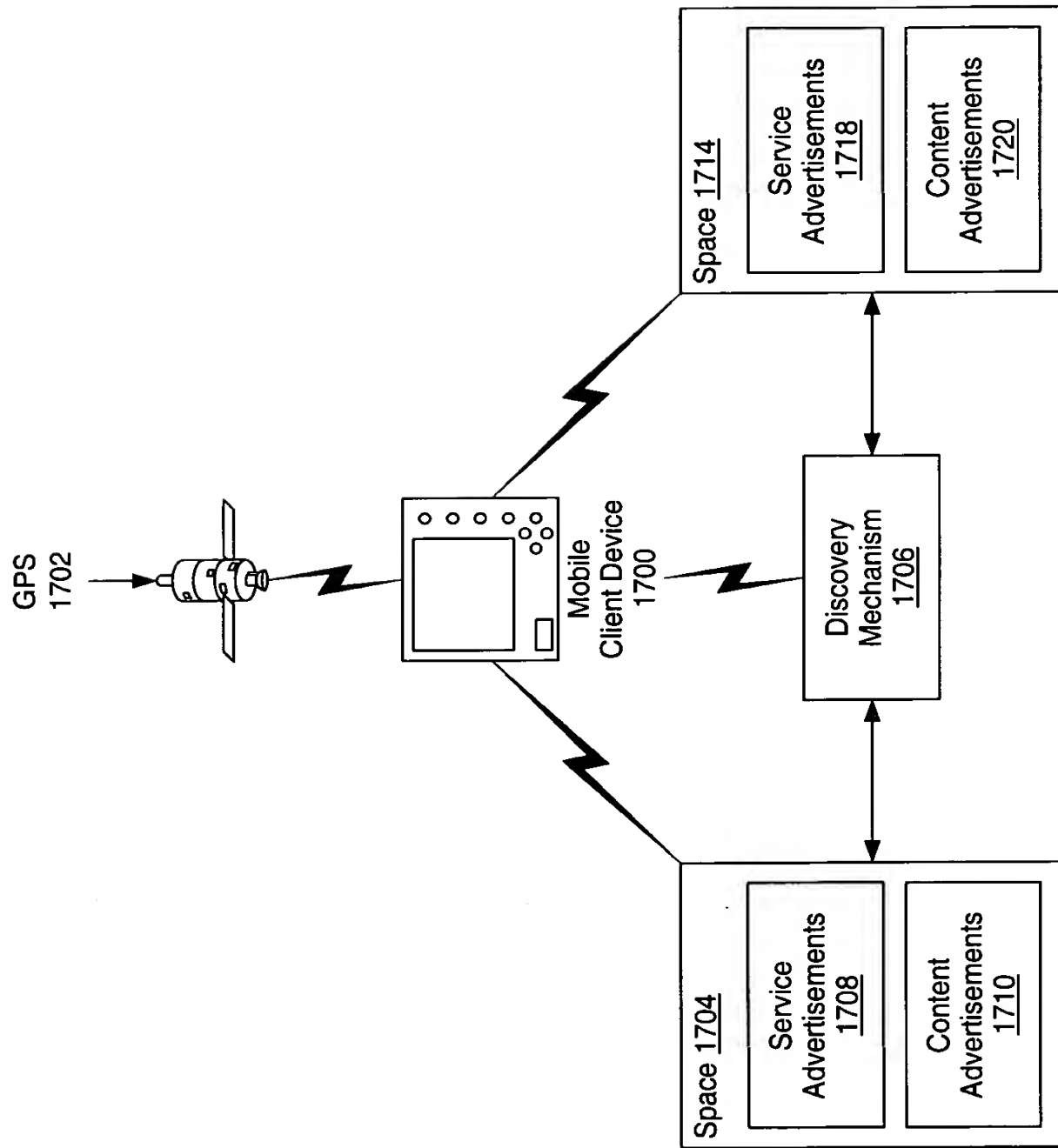


Fig. 38



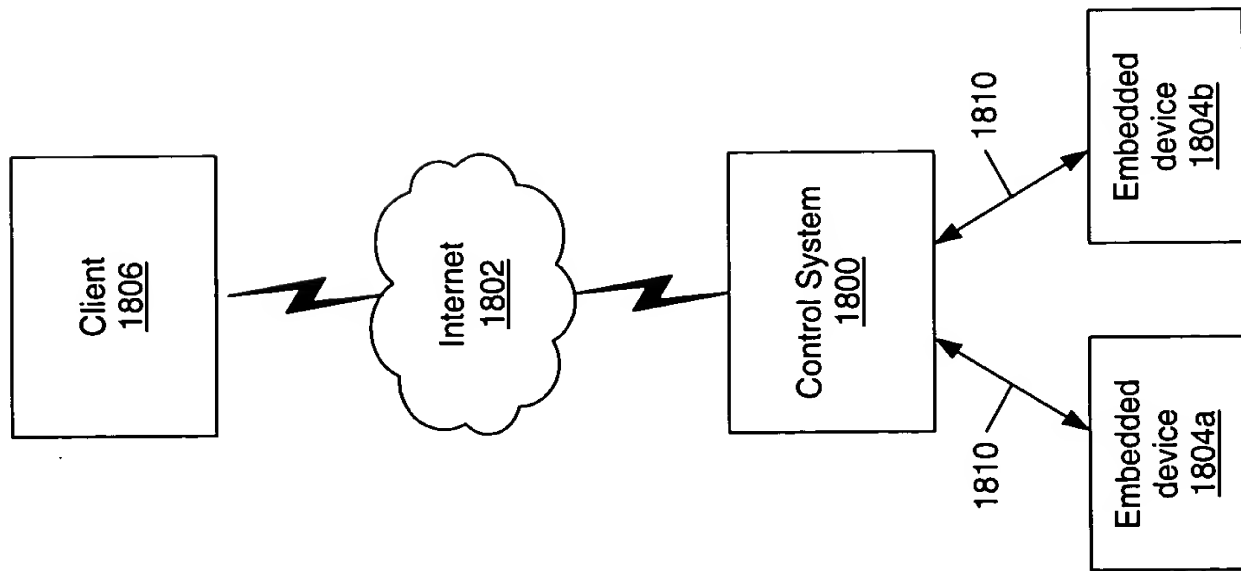


Fig. 40a

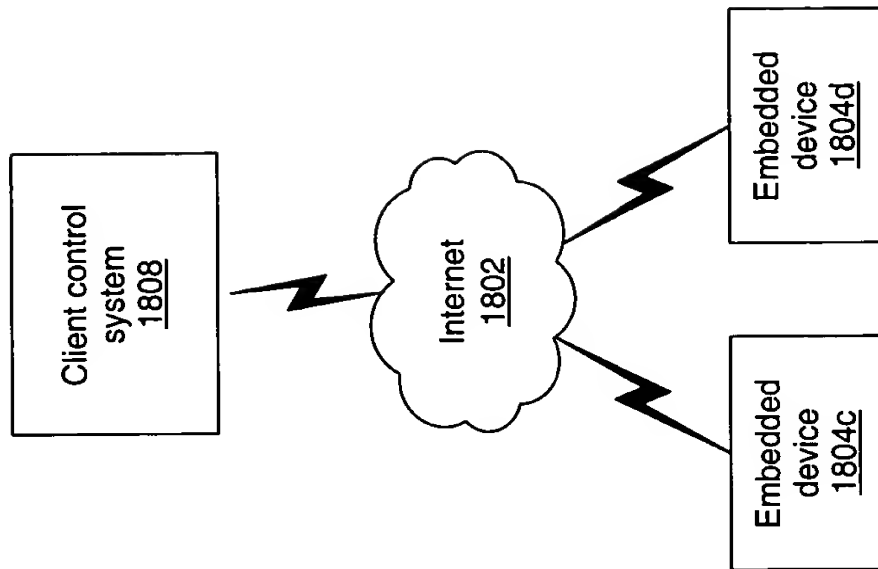


Fig. 40b

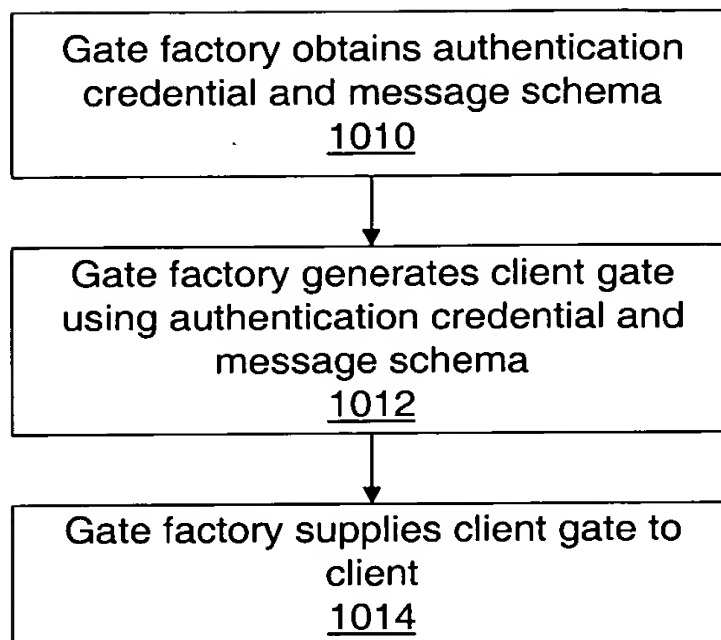


FIG. 41

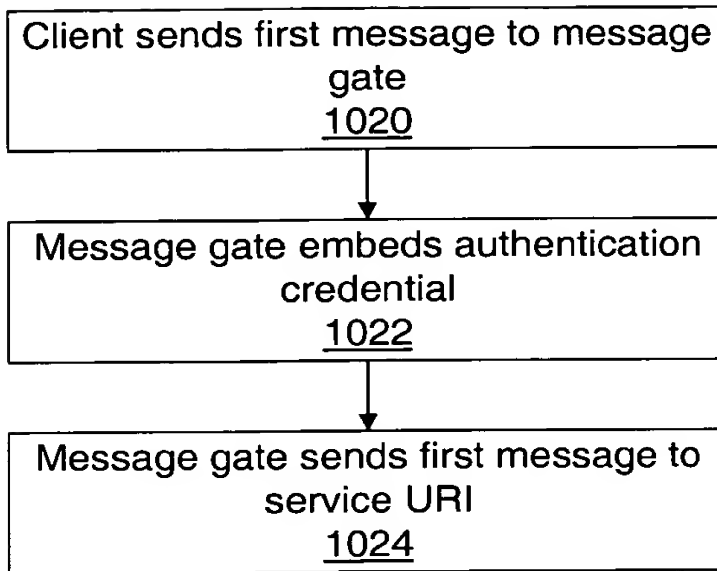


FIG. 42a

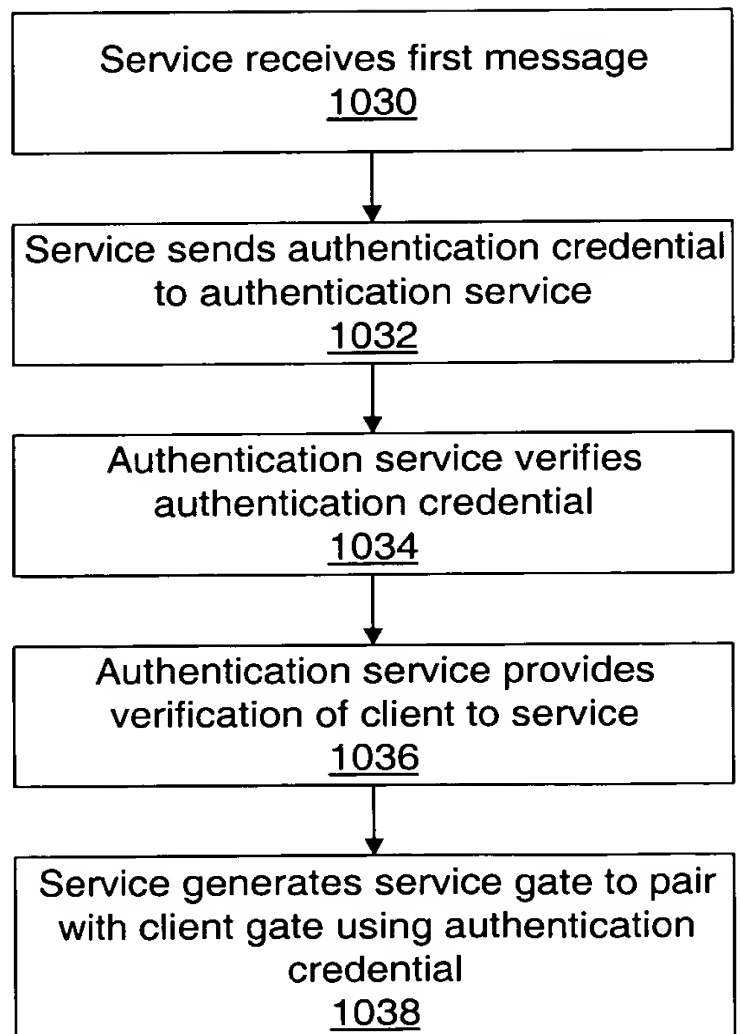


FIG. 42b

00663297-101900



```

graph TD
    1040[Sender embeds authentication  
credential in message  
1040] --> 1042[Sender sends message  
1042]
    1042 --> 1044[Receiver receives message  
1044]
    1044 --> 1046[Receiver compares authentication  
credential in message to known  
authentication credential to  
authenticate message  
1046]

```

FIG. 42c

006TOT 262E6960

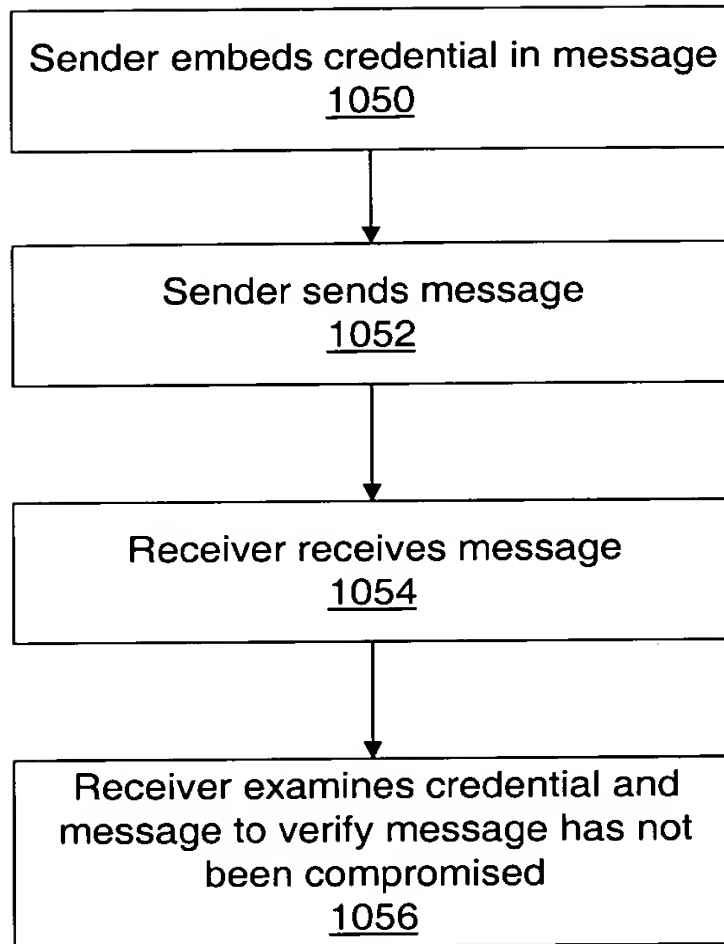


FIG. 43

006T01 10100

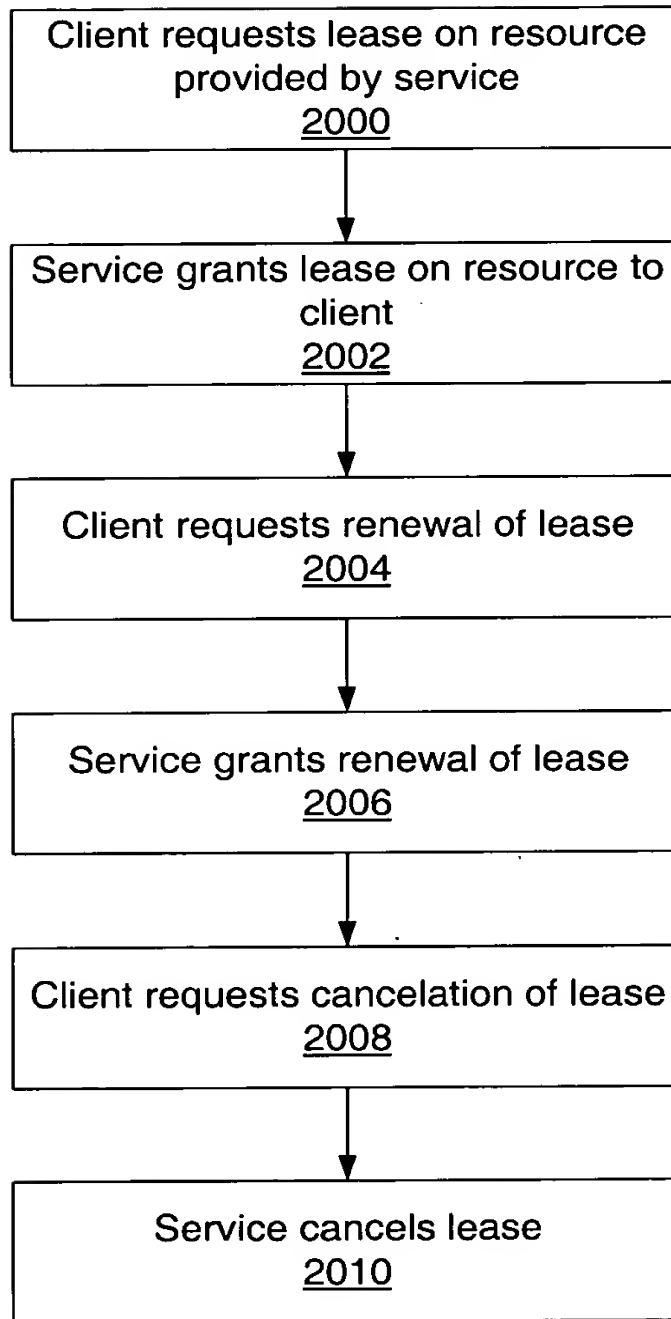


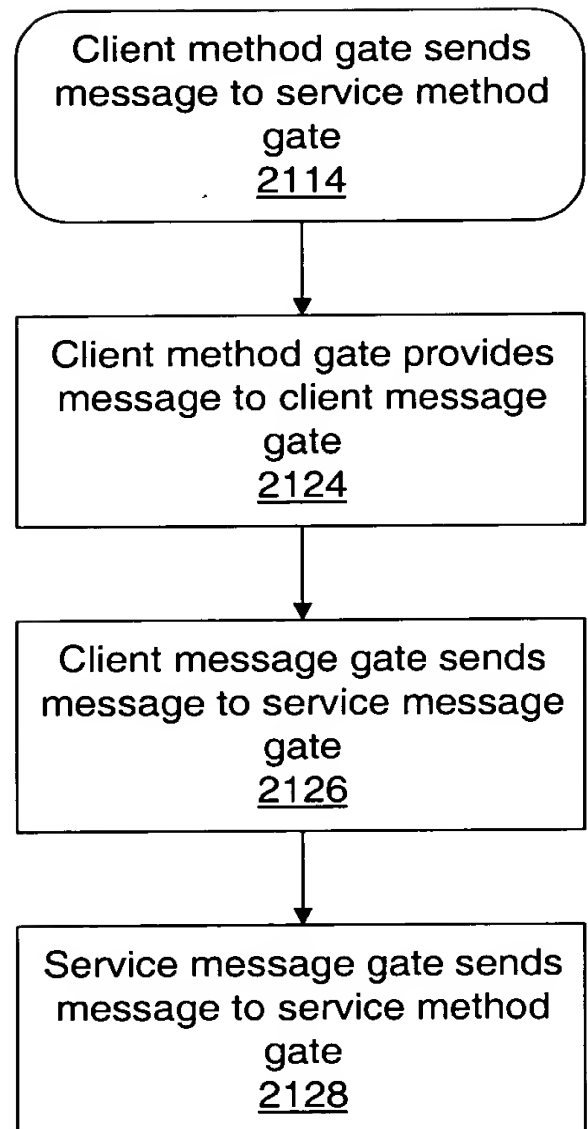
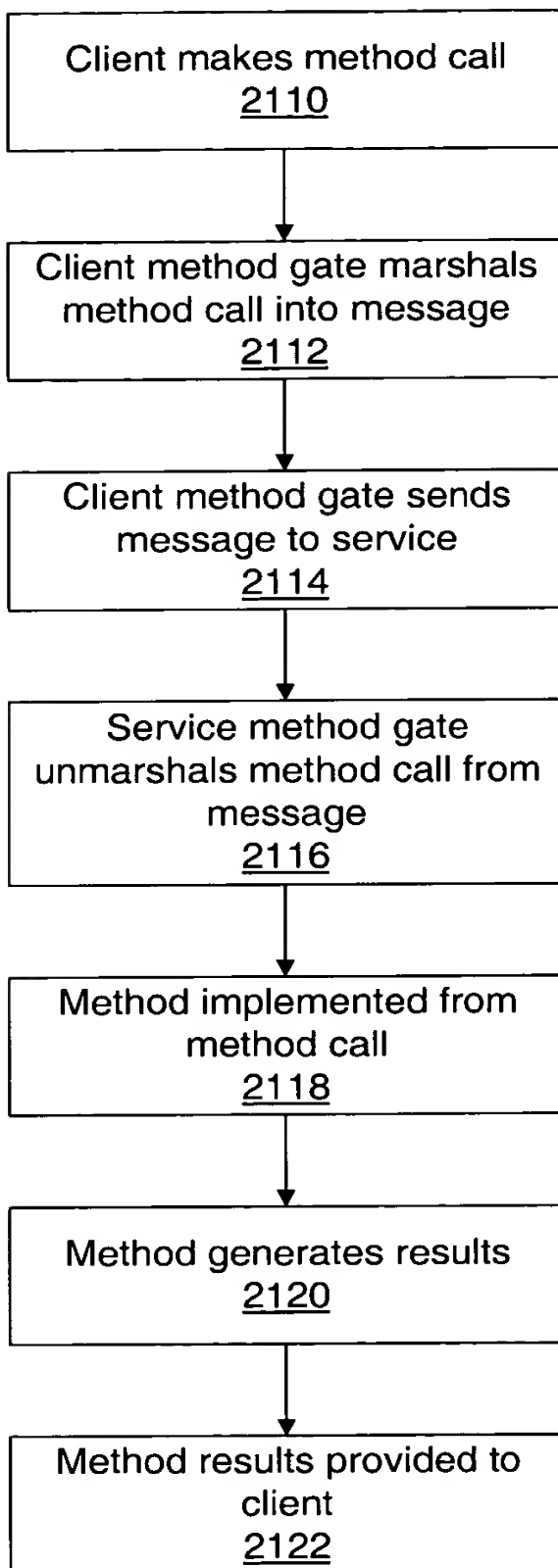
FIG. 44

```

graph TD
    2100[Client generates message including representation of method call  
2100] --> 2102[Client sends message to service  
2102]
    2102 --> 2104[Function performed on service based on representation of method call in the message  
2104]
    2104 --> 2106[Function generates results  
2106]
    2106 --> 2108[Results provided to client  
2108]

```

Figure 45a



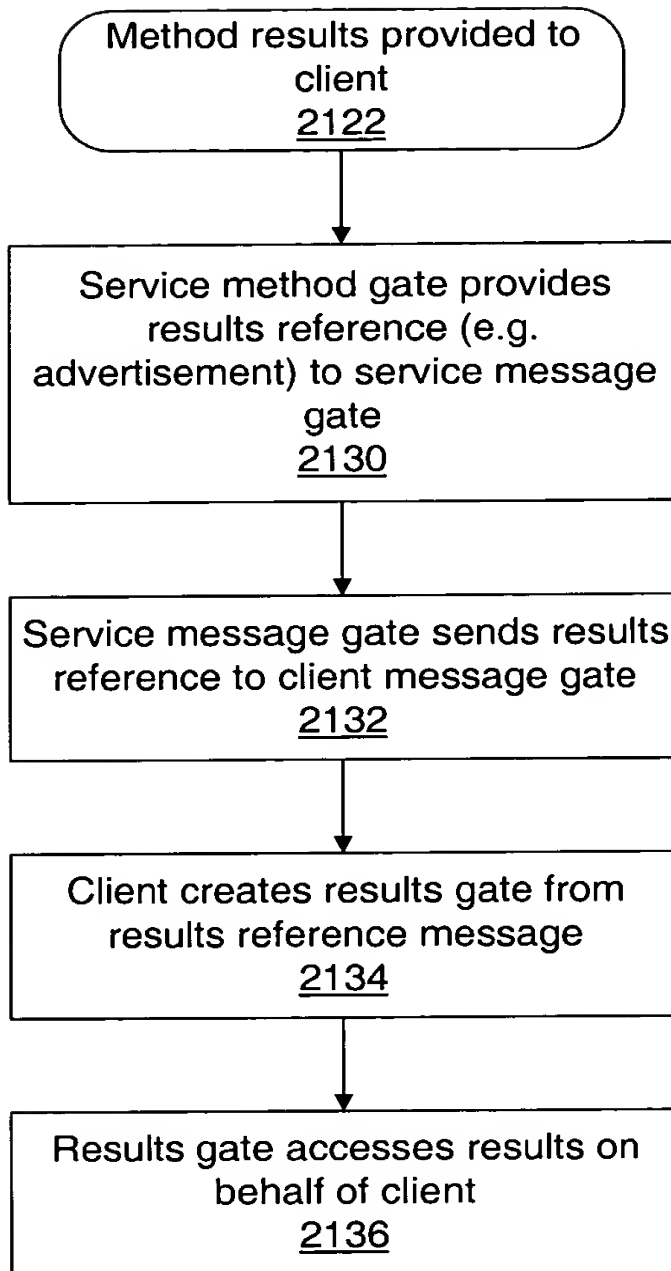


Figure 45d

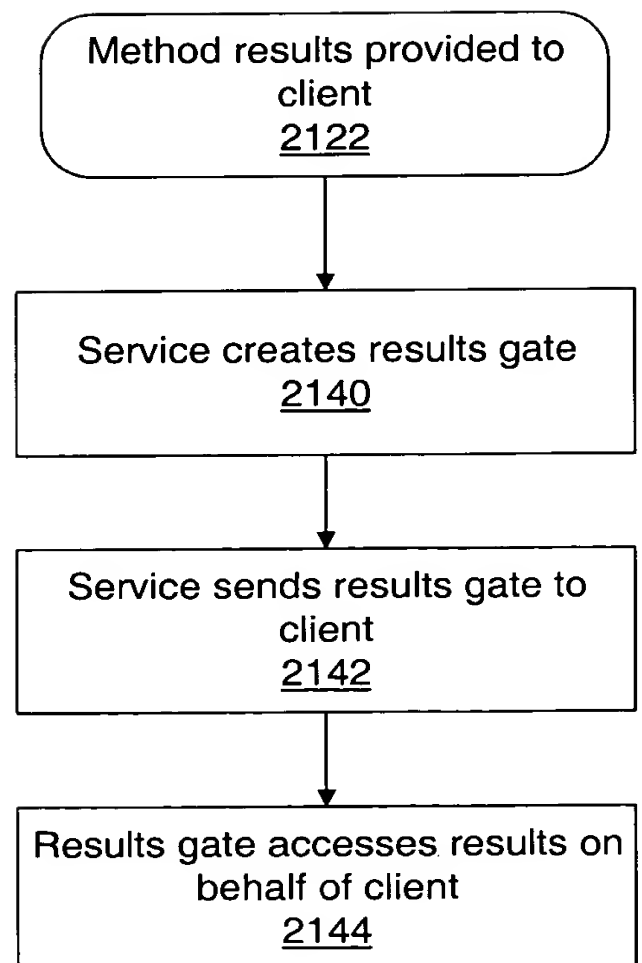


Figure 45e

```

graph TD
    2200[Client requests object from service  
2200] --> 2202[Service provides object to  
compilation process  
2202]
    2202 --> 2204[Compilation process generates data  
representation language  
representation of object  
2204]
    2204 --> 2206[Service sends data representation  
language representation of object to  
client in a message  
2206]
    2206 --> 2208[Client provides data representation  
language representaiton of object to  
decompilation process  
2208]
    2208 --> 2210[Decompilation process generates  
copy of object from data  
representation language  
representation of object  
2210]

```

Figure 46

```

graph TD
    2240[User access client  
2240] --> 2242[Decompilation process  
generates copies of objects  
from data representation  
language representations of  
the objects  
2242]
    2242 --> 2244[User ends access of client  
2244]
    2244 --> 2246[Generated objects are  
automatically deleted  
2246]

```

Figure 47



```

graph TD
    2260[Process executes within a first device  
2260] --> 2262[Convert current computation state to a data  
representation language representation of  
the state  
2262]
    2262 --> 2264[Store the data representation language  
representation of the current computation  
state  
2264]
    2264 --> 2266[Second device accesses the data  
representation language representation of  
the current computation state of the process  
2266]
    2266 --> 2268[Reconstitute the process at the current state  
on the second device  
2268]

```

Figure 48

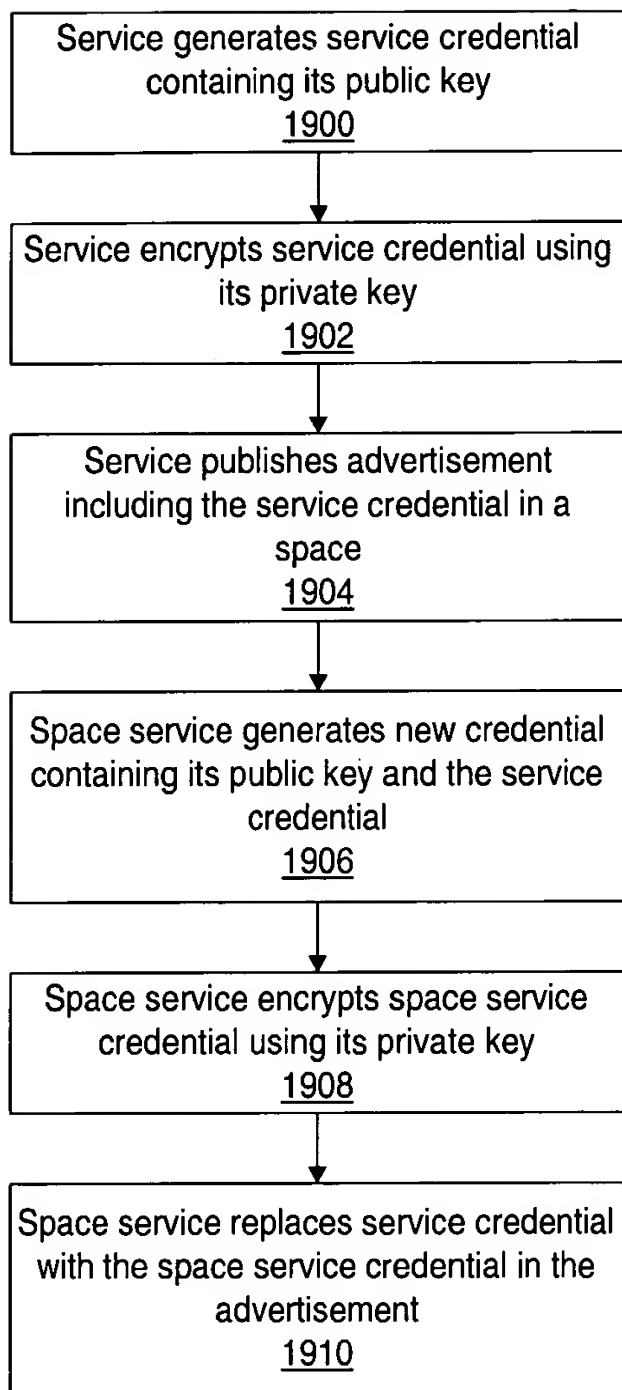


Fig. 49a

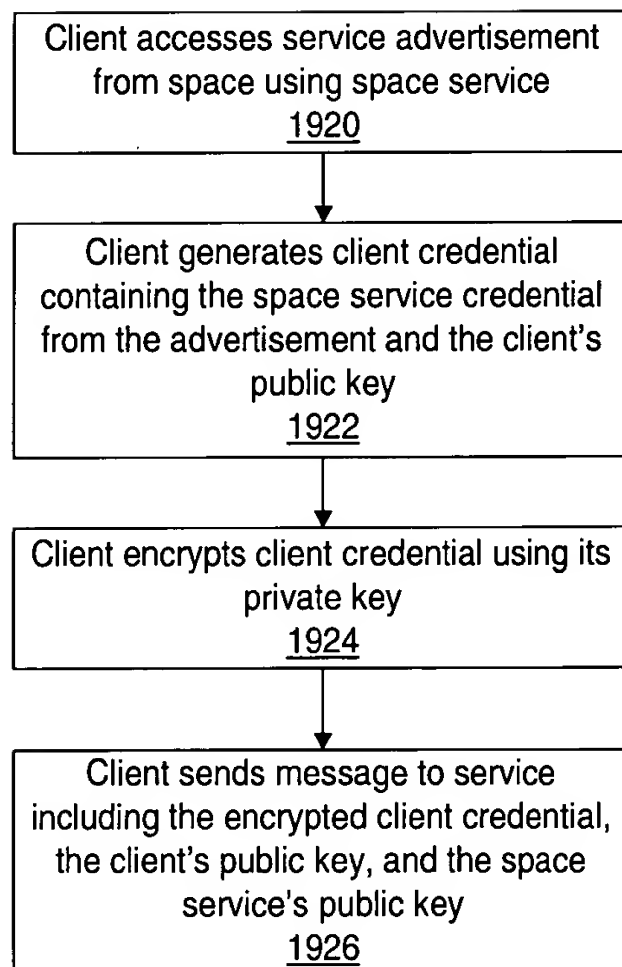


Fig. 49b

00693297-101900

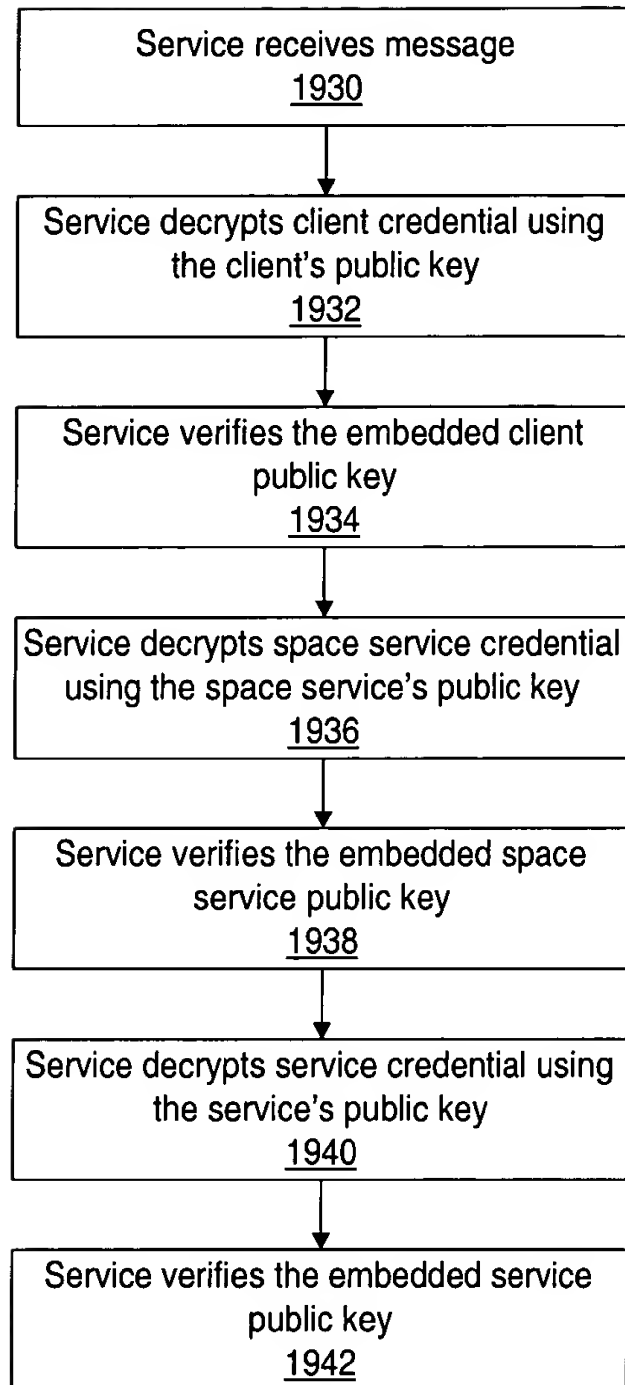


Fig. 49c

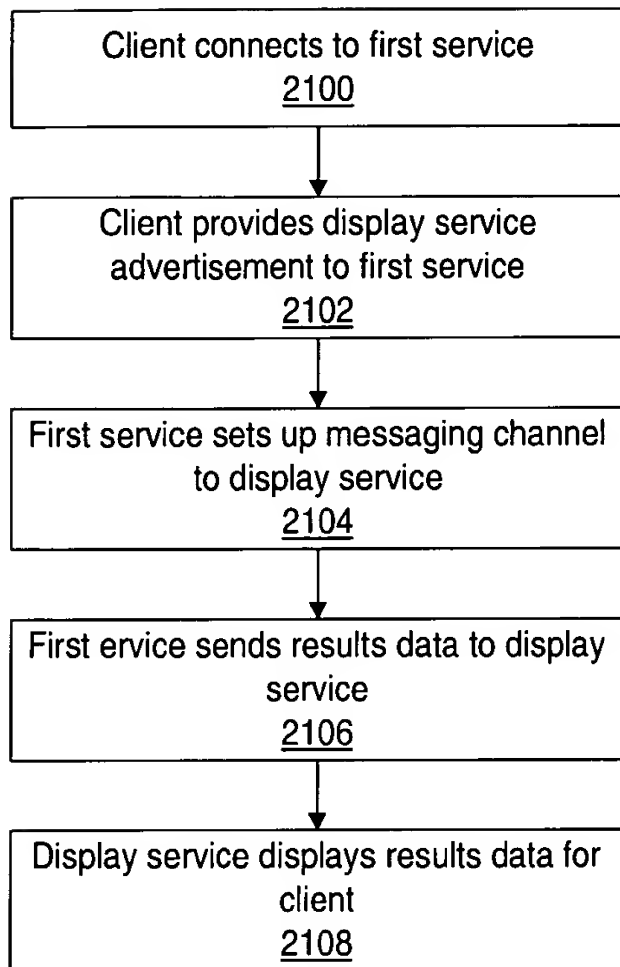


Fig. 50

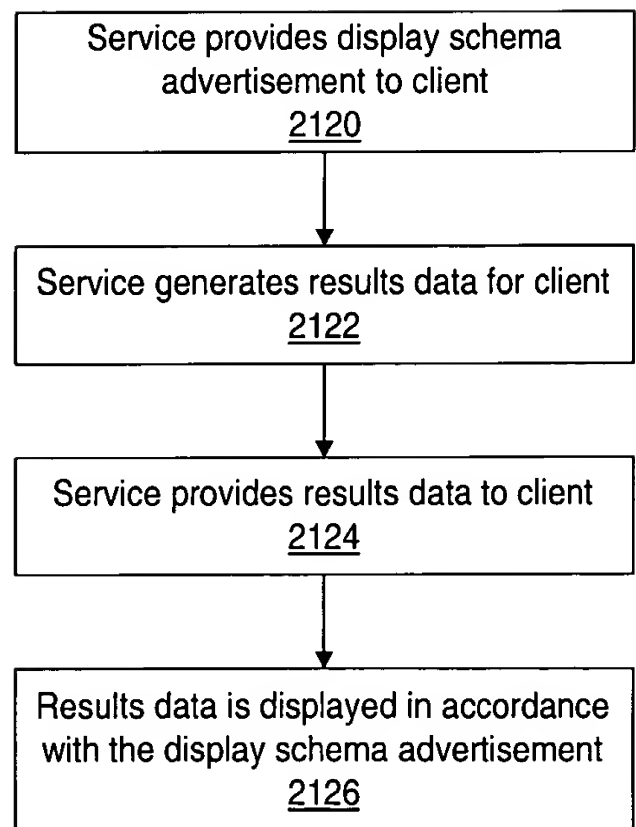


Fig. 51